

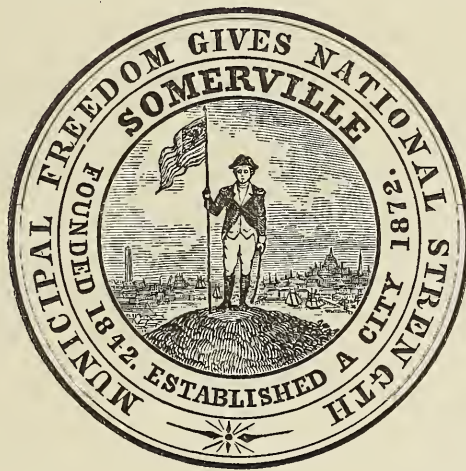
Digitized by the Internet Archive
in 2012 with funding from

Federally funded with LSTA funds through the Massachusetts Board of Library Commissioners

CITY OF SOMERVILLE

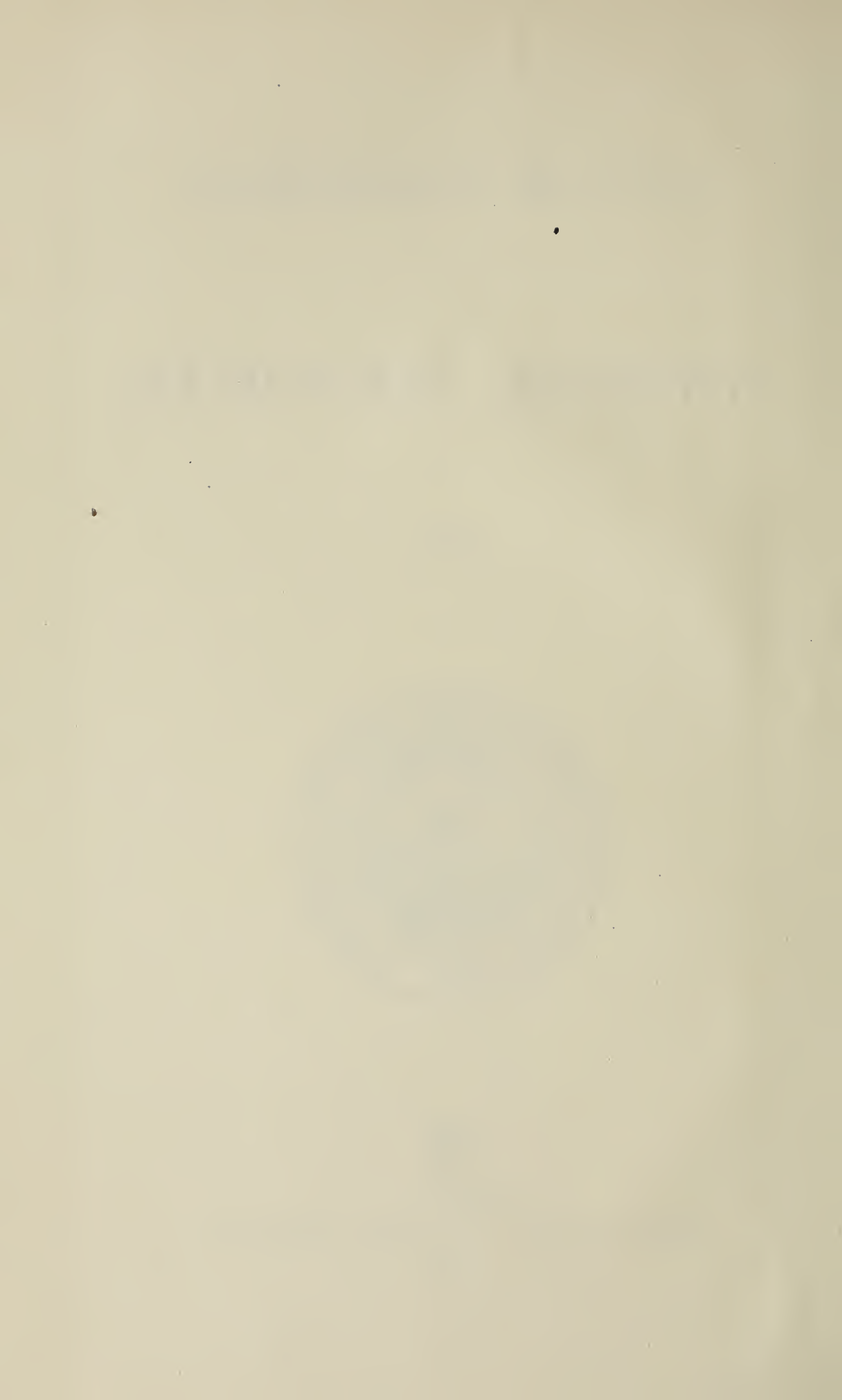
ANNUAL REPORTS.

1887.



BOSTON :
RAND AVERY COMPANY, PRINTERS.

1888.



CITY GOVERNMENT AND OFFICERS FOR 1887.

MAYOR.

MARK F. BURNS.

Residence, 95 Perkins Street ; office, City Hall.

ALDERMEN.

ELBRIDGE G. PARK, *President*.

WARD ONE.

ELBRIDGE G. PARK	.	.	.	.	Arlington Street.
NATHAN H. REED	.	.	.	.	Florence Street.

WARD TWO.

SAMUEL W. HOLT	.	.	.	.	Washington Street.
DANA W. BENNETT	.	.	.	.	Washington Street.

WARD THREE.

HARRISON ALDRICH	.	.	.	.	Gilman Street.
JOHN F. KENNARD	.	.	.	.	Howe Street.

WARD FOUR.

WALTER C. MENTZER	.	.	.	.	Cedar Street.
BERNARD W. LAWRENCE	.	.	.	.	Holland Street.

CLERK OF BOARD OF ALDERMEN.

CHARLES E. GILMAN.

COMMON COUNCIL.

CHARLES L. NORTH, *President.*

WARD ONE.

GEORGE D. WEMYSS	Austin Street.
GEORGE M. STARBIRD	Pearl Street.
CHARLES M. HEMENWAY	Perkins Street.
RICHARD DOWD	Charles Street.

WARD TWO.

CHARLES L. NORTH	High Street.
TIMOTHY C. DWYER	Somerville Avenue.
PATRICK F. DEADY	Oak Street.
JOHN W. MACDONALD	High Street.

WARD THREE.

EDWARD O'BRIEN	Lowell Street.
ROBERT DUDDY	Bond Street.
EZRA D. SOUTHER	Pembroke Street.
MARTIN L. KING	Cross Street.

WARD FOUR.

LOUIS E. MERRY	Dover Street.
EDWARD H. BRADSHAW	Cambria Street.
GEORGE O. PROCTOR	Spring Street.
D. WALLIS TUCKER	Elm Street.

CLERK OF COMMON COUNCIL.

DOUGLAS FRAZAR.

JOINT STANDING COMMITTEES FOR 1887.

ACCOUNTS. — Aldermen Aldrich, Mentzer; Councilmen King, Hemenway, Proctor.

CITY ENGINEERING. — Aldermen Holt, Bennett; Councilmen Merry, Starbird, King.

CLAIMS. — His Honor the Mayor; Alderman Holt; the President of the Common Council; Councilmen Hemenway, Merry.

FINANCE. — His Honor the Mayor; Aldermen Park, Bennett; the President of the Common Council; Councilmen Bradshaw, Wemyss, Souther, Deady.

FIRE DEPARTMENT. — Aldermen Lawrence, Kennard; Councilmen Wemyss, Tucker, Duddy.

FUEL AND STREET LIGHTS. — Aldermen Aldrich, Reed; Councilmen Dwyer, Proctor, King.

HIGHWAYS. — Aldermen Holt, Reed; Councilmen O'Brien, Bradshaw, Dwyer.

LEGISLATIVE MATTERS. — His Honor the Mayor; Alderman Mentzer; the President of the Common Council; Councilmen Starbird, Hemenway.

ORDINANCES. — Aldermen Bennett, Reed; Councilmen Souther, Tucker, Dowd.

PRINTING. — Aldermen Kennard, Lawrence; Councilmen Duddy, Deady, Wemyss.

PUBLIC GROUNDS. — Aldermen Reed, Kennard; Councilmen Merry, Souther, Macdonald.

PUBLIC PROPERTY. — Aldermen Park, Mentzer; Councilmen Duddy, Starbird, Macdonald.

SOLDIERS' RELIEF. — Aldermen Reed, Holt; Councilmen O'Brien, Merry, Dowd.

WATER. — Aldermen Mentzer, Kennard; the President of the Common Council; Councilmen O'Brien, Dowd.

COMMITTEES OF THE BOARD OF ALDERMEN.

STANDING COMMITTEES.

ELECTIONS. — Aldermen Park, Lawrence.

ENROLLED ORDINANCES. — Aldermen Aldrich, Park.

LICENSES. — Aldermen Lawrence, Holt.

POLICE. — His Honor the Mayor; Aldermen Aldrich, Mentzer.

SEWERS. — Aldermen Bennett, Aldrich, Lawrence.

STATE AID. — Aldermen Bennett, Park, Mentzer, Kennard.

SPECIAL COMMITTEE.

BUILDING PERMITS. — Aldermen Holt, Lawrence.

STANDING COMMITTEES OF THE COMMON COUNCIL.

ELECTIONS AND RETURNS.—Councilmen Tucker, Dowd, Macdonald.

ENROLLED ORDINANCES AND RESOLUTIONS.—Councilmen Souther, Deady, Proctor.

SCHOOL COMMITTEE.

MARK F. BURNS, Mayor, Chairman, *ex officio*.

CHARLES L. NORTH, President of the Common Council, *ex officio*.

(Term, three years.)

WARD ONE.

JOHN H. BUTLER (elected 1884)	.	.	Pearl Street.
S. NEWTON CUTLER (elected 1885)	.	.	Pearl Street.
HORACE C. WHITE, M.D. (elected 1886)	.	.	Arlington Street.

WARD TWO.

A. H. CARVILL, M.D. (elected 1885)	.	.	Bow Street.
JAMES F. BEARD (elected 1886)	.	.	Prospect Hill Av.
CHARLES I. SHEPARD (elected 1884)	.	.	High Street.

WARD THREE.

NORMAN W. BINGHAM (elected 1885)	.	.	School Street.
Q. E. DICKERMAN (elected 1886)	.	.	Central Street.
WILLIAM P. HILL (elected 1884)	.	.	Sycamore Street.

WARD FOUR.

MARTIN W. CARR (elected 1884)	.	.	Cragie Street.
Prof. BENJAMIN G. BROWN (elected 1885)	.	.	Professors' Row.
H. P. MAKECHNIE, M.D. (elected 1886)	.	.	Elm Street.
<i>Superintendent and Secretary</i> , J. H. DAVIS,			Myrtle Street.

PRINCIPAL ASSESSORS.

(Term, three years.)

STILLMAN H. LIBBY (elected 1886), <i>Chair-</i>		
<i>man</i>	.	Elm Street.
GEORGE W. HADLEY (elected 1885)	.	Perkins Street.
BENJAMIN F. THOMPSON (elected 1887)	.	Summit Avenue.

ASSISTANT ASSESSORS.

(Term, one year.)

GEORGE W. BARTLETT, Ward One . . .	Mt. Vernon Street.
WILLIAM A. FLAHERTY, Ward Two . . .	Washington Street.
HIRAM D. SMITH, Ward Three . . .	Cross Street.
SAMUEL T. RICHARDS, Ward Four . . .	Summer Street.

BOARD OF HEALTH.

(Term, Physician, three years; other members, two years.)

GEORGE A. KIMBALL (appointed 1887, re- signed in June)	Office, City Hall.
GEORGE C. SKILTON (appointed 1886) . . .	Walnut Street.
THOMAS M. DURELL, M.D. (appointed 1885)	Bow Street.
J. FRANK WELLINGTON (appointed June 22, 1887)	Vinal Avenue.
<i>Clerk</i> , GEORGE I. VINCENT	Office, City Hall.
<i>Inspector</i> , WILLIAM H. BRINE	40 Houghton Street.

COMMISSIONERS OF THE SINKING FUNDS.

(Term, three years.)

NATHAN TUFTS (elected 1886, died Oct. 20, 1887)	Summer Street.
HENRY F. WOODS (elected 1885)	Sycamore Street.
EZRA D. CONANT (elected 1887, died Sept. 10, 1887)	Pearl Street.
CHRISTOPHER E. RYMES (elected Nov. 9, 1887)	Summer Street.
JOHN F. NICKERSON (elected Nov. 9, 1887), <i>Treasurer</i> , AARON SARGENT, Broadway.	Flint Street.

OVERSEERS OF THE POOR.MARK F. BURNS, *Mayor, Chairman, ex officio.*

HERBERT E. HILL (elected 1886 for 4 years)	Mt. Vernon Street.
CHARLES S. LINCOLN (elected 1885 for 2 years)	Laurel Street.

EDWARD GLINES (elected 1885 for 3 years), Highland Avenue.

CHARLES G. BRETT (elected 1885 for 4
years) Hall Street.

Agent, CHARLES C. FOLSOM, Office, Police Building, Bow Street.

Secretary, GEORGE T. LINCOLN, Office, Police Building, Bow Street.

REGISTRARS OF VOTERS.

CHARLES E. GILMAN, *City Clerk*.

CROMWELL G. ROWELL (appointed 1886 for unexpired term).

JOHN R. CONANT (appointed 1884 for 3 years).

SAMUEL G. A. TWYXCROSS (appointed 1886 for 3 years).

SOMERVILLE MYSTIC WATER BOARD.

(Term, one year.)

J. ORLIN HAYDEN, *President* . . . Hill Building, Union Square.

WALTER S. BARNES Highland Avenue.

CHARLES H. BROWN Sycamore Street.

JOHN B. VIAL Webster Street.

RICHARD T. BLACKWELL Somerville Avenue.

Superintendent of Water Works, NATHANIEL DENNETT.

Office, Prospect Street, corner Somerville Avenue.

TRUSTEES OF THE PUBLIC LIBRARY.

(Term, three years.)

CHARLES S. LINCOLN (elected 1885), *Presi-*
dent

Laurel Street.

CHARLES G. POPE (elected 1885) . . . Franklin Street.

J. HENRY FLITNER (elected 1886), *Secre-*
tary

Day Street.

GEORGE A. BRUCE (elected 1886) . . . Highland Avenue.

WILLIAM E. WELD (elected 1887) . . . Harvard Street.

JAMES E. WHITAKER (elected 1887) . . . Sycamore Street.

WILLIAM H. BRINE (elected 1886) . . . Highland Avenue.

SANFORD HANSCOM, M.D. (elected 1887) . Webster Street.

CHRISTOPHER E. RYMES (elected 1885) . Summer Street.

Librarian, HARRIET A. ADAMS.

Assistant Librarian, LIZZIE A. STEVENS.

CITY CLERK AND CLERK OF BOARD OF ALDERMEN.

CHARLES E. GILMAN. Office, City Hall.

CITY TREASURER AND COLLECTOR OF TAXES.

JOHN F. COLE. Office, City Hall.

CITY MESSENGER.

JAIRUS MANN. Office, City Hall.

CITY SOLICITOR.

SAMUEL C. DARLING. Office, 18 Rogers Building, Boston.

CITY AUDITOR.

DOUGLAS FRAZAR. Office, City Hall.

CITY ENGINEER.

GEORGE A. KIMBALL (to April 30, resigned). Office, City Hall.

HORACE L. EATON (from April 30).

SUPERINTENDENT OF STREETS.

FRANK G. WILLIAMS, Albion Street. Office, City Hall.

SUPERINTENDENT OF PUBLIC BUILDINGS AND LIGHTS.

THOMAS R. ROULSTONE. Office, City Hall.

**SUPERINTENDENT OF TELEGRAPH AND TELEPHONE
LINES.**

JAMES R. HOPKINS, Summit Avenue.

CHIEF OF POLICE.

MELVILLE C. PARKHURST, Police Station, Bow Street.

CHIEF ENGINEER OF FIRE DEPARTMENT.

JAMES R. HOPKINS. Office, Engine House, Highland Avenue.

INSPECTOR OF BUILDINGS.

JAMES R. HOPKINS, Summit Avenue.

INSPECTOR OF MILK AND VINEGAR.

THOMAS CUNNINGHAM, Oak Street.

CITY PHYSICIAN.

THOMAS M. DURELL, M.D., 14 Bow Street.

CLERK OF ASSESSORS AND COMMITTEES.

GEORGE I. VINCENT. Office, City Hall.

ASSISTANT CLERK OF ASSESSORS AND COMMITTEES.

WILLIAM P. MITCHELL. Office, City Hall.

CONSTABLES.

JARIUS MANN.	WM. H. BRINE (Houghton St.).
ROBERT R. PERRY.	WILLIAM D. HAYDEN.
CHARLES C. FOLSOM.	SAMUEL R. DOW.
EDWARD MCGARR.	JOSEPH J. GILES.
C. C. CAVANAGH.	GEORGE CULLIS.

FIELD DRIVERS.

JOHN E. FULLER.	DENNIS KELLY.
JUDSON W. OLIVER.	CHARLES S. THRASHER.
GEORGE H. CARLETON.	GEORGE W. BEAN.
PATRICK BENCH.	CHARLES L. ELLIS.

JAMES F. FOLEY.

FENCE VIEWERS.

DAVID A. SANBORN.	CHARLES D. ELLIOTT.
-------------------	---------------------

POUND KEEPER.

CHARLES A. SMALL.

SEALER OF WEIGHTS AND MEASURES.

NOAH HARDING, Sycamore Street.

SURVEYOR OF WOOD, BARK, AND LUMBER.

SAMUEL T. LITTLEFIELD.

SURVEYOR OF STONE, BRICK, AND PLASTER WORK.

ALFRED M. SIBLEY.

SURVEYOR OF MECHANICS' WORK.CHARLES D. ELLIOT.

PUBLIC WEIGHERS.

J. C. COUSINS.

JOHN CRAIG.

D. W. DANFORTH.

UNDERTAKERS.

WILLIAM A. FLAHERTY. P. H. RAFFERTY. PATRICK RAFFERTY.
E. H. MARSH. THOMAS J. BARKER. HORACE D. RUNEY.

POLICE DEPARTMENT.M. C. PARKHURST, *Chief*.R. R. PERRY, *Captain*.S. R. DOW, *Sergeant*.EDWARD MCGARR, *Sergeant*.C. C. CAVANAGH, *Sergeant*.

JOHN E. FULLER.

P. W. SKINNER.

A. L. STAPLES.

S. A. BROWN.

J. W. OLIVER.

JOHN HAFFORD.

GEORGE W. BEAN.

IVAN LEIGHTON.

GEORGE L. SMITH.

M. H. KINSLEY.

EDWARD M. CARTER.

G. A. BODGE.

E. F. FALES.

DENNIS KELLY.

J. F. JOHNSON.

GEORGE H. CARLETON.

E. A. CARTER.

H. H. MILLER.

EDWARD E. HAMBLÉN.

FRANCIS A. PERKINS.

JAMES F. FOLEY.

CHARLES S. THRASHER.

CHARLES L. ELLIS.

WILLIAM H. JOHNSTON.

PATRICK BENCH.

M. C. PARKHURST, *Lock-up Keeper*.

MEETINGS.

BOARD OF ALDERMEN.

Second and fourth Wednesday evenings of each month.

COMMON COUNCIL.

Thursday evenings following the second and fourth Wednesdays of each month.

SCHOOL COMMITTEE.

Last Monday evening of each month.

MAYOR'S INAUGURAL ADDRESS.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN,
Jan. 11, 1887.

ORDERED, That the Committee on Printing be and is hereby authorized and instructed to have printed for public use seven hundred copies of the Address delivered by his Honor the Mayor at the inauguration of the present City Government, the expense to be charged to Printing and Stationery account.

Read twice and adopted and sent down for concurrence.

GEO. I. VINCENT, *Clerk pro tem.*

IN COMMON COUNCIL, Jan. 11, 1887.

Read twice and adopted in concurrence.

DOUGLAS FRAZAR, *Clerk.*

INAUGURAL ADDRESS
OF
HON. MARK F. BURNS,

DELIVERED JAN. 3, 1887.

GENTLEMEN OF THE CITY COUNCIL: —

In assuming the duties that have been assigned to us by our fellow-citizens, let us resolve that we will work together in peace and harmony, each assisting the others in the transactions of the city's business, in such a way as to give entire satisfaction to those who have complimented us by an election to the important positions which we now hold. If we give the time, and bring to bear upon all questions which come before us for discussion our best judgment and ability, we shall give the citizens what they have a right to expect, — a good, safe, economical, and business-like administration of their affairs; one which will advance the material prosperity of all, regardless of section, faction, or party. Our thanks will not pay the voters the debt of gratitude we owe them for thus honoring us. Only by a constant effort to so conduct the affairs placed in our charge that the greatest good may come to the greatest number, can we hope to cancel the debt.

In accordance with the usual custom, I shall lay before you a brief statement of the condition of the various departments for your information, and some suggestions for your consideration. The recommendations are not to be adopted unless they appeal to your best judgment.

FINANCES.

It appears by the forthcoming report of the Sinking Fund Commissioners that the sinking funds, Jan. 1, 1886, amounted to \$517,158.18, to which was added during the year, from contributions from the city and interest on investments, the sum of

\$66,894.23, making the total amount of sinking funds now on hand \$584,052.41. Of this amount all but \$2,552.41, which is on deposit at the bank, is invested in Somerville City Bonds.

The funded debt of the city remains the same as it was Jan. 1, 1886; namely, \$1,525,000. If from this amount the sinking funds now on hand are taken, it leaves the net funded debt, Jan. 1, 1887, \$940,947.59.

The unfunded liabilities are for temporary loans, \$150,000, and this amount is exceeded by uncollected taxes, assessments, and accounts due, by about \$20,000 (it is impossible on account of our financial year beginning on the first day of January to give the exact amount of surplus; it is probable that it will overrun these figures a few dollars), which, being taken from the net funded debt, leaves the net debt of the city, Jan. 1, 1887, \$920,947.59. The net debt one year ago was \$999,786.84; consequently it has been reduced during the past year about \$79,000.

The following table shows the annual reduction in the net debt since 1876, when the city debt was largest:—

1877	. . . . .	\$34,446 00
1878	. . . . .	44,196 00
1879	. . . . .	72,345 00
1880	. . . . .	23,971 00
1881	. . . . .	50,333 00
1882	. . . . .	94,169 00
1883	. . . . .	74,172 00
1884	. . . . .	35,705 00
1885	. . . . .	64,602 00
1886	. . . . .	79,000 00

The real estate in the city was valued last year at \$24,124,700; the personal property, \$1,878,500; total valuation, \$26,003,200. The tax rate was \$15.40 on each \$1,000, and, together with 8,269 polls assessed, brought \$416,987.28, the amount of the tax levy.

The following is the valuation, tax levy, and rate each year since 1876:—

Year.	Valuation.	Tax Levy.	Rate.
1876	. . . \$26,573,400	\$504,745 24 . . .	\$18 60
1877	. . . 25,479,400	471,789 14 . . .	18 10
1878	. . . 20,976,900	409,497 10 . . .	19 00
1879	. . . 18,950,100	352,553 80 . . .	18 00

Year.	Valuation.	Tax Levy.	Rate.
1880 . . .	20,458,100	402,927 71 . . .	19 10
1881 . . .	22,569,100	452,945 45 . . .	19 50
1882 . . .	23,162,200	425,721 16 . . .	17 80
1883 . . .	23,812,900	411,645 43 . . .	16 70
1884 . . .	24,331,100	418,750 26 . . .	16 60
1885 . . .	24,878,400	428,605 44 . . .	16 60
1886 . . .	26,003,200	416,987 23 . . .	15 40

The funded debt reached its largest amount in 1876, and represented the amount borrowed for the following improvements : viz., —

Public buildings, land, town debt, etc.	\$502,354 00
Public Park	200,000 00
Street improvements	292,500 00
Sidewalks	50,000 00
Sewers	227,000 00
Water-works	335,000 00
Total	<u>\$1,606,854 00</u>

Of this amount \$10,000 was paid in 1878, \$11,854 in 1879, and \$60,000 in 1885, leaving the funded debt \$1,525,000, as before stated.

Somerville has fulfilled the provisions of the law which was enacted by the Legislature of 1875. That law obliged us to “establish a sinking fund and contribute thereto from year to year an amount raised annually by taxation sufficient, with its accumulations, to extinguish the debt at maturity,” or in twenty years from that time, except the water debt, which must be paid in thirty years. The contributions to that sinking fund, and assessment on each \$1,000 of the valuation necessary to meet it, have been as follows : —

Year.	Amount.	Rate per \$1,000 of valuation.
1876.	\$45,130 62.	\$1 70
1877.	48,828 58.	1 92
1878.	51,004 64.	2 43
1879.	53,061 76.	2 80
1880.	55,739 35.	2 72
1881.	58,498 64.	2 59
1882.	61,390 59.	2 65
1883.	64,479 01.	2 70
1884.	67,719 33.	2 78
1885.	71,305 66.	2 87
1886.	66,894 23.	2 57

making the total amount contributed towards the final extinguishment of the debt, as provided for by the Act of 1875, \$644,052.41, and the average tax-rate for that purpose \$2.52 on a \$1,000 valuation. It will be seen by the foregoing figures that the requirements of the law regulating "municipal indebtedness" have been rigidly complied with; but the burden it has imposed upon us has been heavy, and the rate of taxation largely increased in excess of that required to provide for our current expenses, and pay for the permanent improvements which are constantly being made. In my opinion it is not necessary or reasonable to ask that the debt be paid as rapidly as this, neither do I think it is in the interest of economy to do so. As the debt was contracted for such improvements as will be more useful and valuable in future years than they are to-day, it seems just and proper for us to ask the taxpayers of the future to assist in paying for them. I believe it is right to distribute the debt among the years that receive the benefit. I know it may be said that each year brings its own burdens, and that the taxpayers of the future will have all they can do to provide for their own wants; but this might also be said of the present. We are providing for present wants, paying a debt contracted years ago, and making permanent improvements, which will become more valuable as the city grows older. This we have done for eleven years; but to do so, we have been obliged to impose upon the taxpayers a rate of taxation so oppressive as to materially impair our prosperity. It was not expected by the Legislature that cities and towns would clear themselves entirely from debt, for the law allows them to borrow money on funded-debt account to the amount of two and one-half per cent of the valuation; so, when a city's net debt is less than that amount, it is allowed to increase its funded debt until it reaches that limit. Why should it be necessary to continue to pay each year so large an amount towards the debt, especially after the net debt falls below the amount we are allowed to owe? It will be seen that, if we fail to make any further contributions to the sinking funds, we shall be able in 1895, when the debt is to be paid, to borrow, under the law, money enough to pay off the whole of it. In my opinion, the laws limiting the rate of taxation and municipal indebtedness are all the legislation which is necessary upon this subject, and cities and towns can be safely left with these safeguards to manage their own municipal debt in their own way. If it is necessary to clear

cities entirely from debt, or reduce it to a lower amount, the Legislature could reduce the limit. This, I think, it should and would do, as it has once done already.

It tends to a more economical administration of a city's affairs to keep its debt about up to the limit allowed by law. It would be impossible, as the history of Somerville will show, to get an extravagant scheme through the City Council, if the entire cost of the same must be put into the tax levy of that year. The right to borrow increases the desire and invites extravagance. Members of any city council will be more careful in their expenditures, if every dollar used must be provided for in their own tax levy, and they themselves held responsible for the tax rate. The rate should not be higher in Somerville than in Boston, Cambridge, or any other city. It seems very important that the tax on our property should be reduced. I think this should be our policy. It is a policy which, if adopted and continued for a few years, will so increase the value of property that we shall be able to make all necessary improvements without increasing the burden of taxation. I would not be understood as advising a parsimonious economy in the administration of the city's affairs, but would advise providing for the maintenance of the various departments in a decently liberal manner; and would not forget that our city is destined to become a very large and populous one, and we should, with wise forethought, look ahead and provide for her future needs.

We have not borrowed any money on funded-debt account for eleven years; not because none was needed, but simply because the law did not allow us to. In getting along without borrowing, we have been obliged to impose a burden which was hard to bear, as will be seen by reference to the table of tax rates. It is true the people do not complain now; but the reason they do not is not because the rate is low, but because it is lower than it has been. In view of these facts, I renew my recommendation of last year, which was that an earnest effort be made to induce the Legislature to so modify the law as to allow more time in which to pay the debts of cities and towns. There is no question in my mind regarding the propriety of this recommendation, and I do not hesitate to suggest that the measure offers the following considerations:—

First, It precludes the possibility of increasing our city-loan indebtedness for a long time.

Second, It will prevent the accomplishment of extravagant measures by the postponement of that time.

Third, It provides for the extinguishment of our present debt by annual payments within our means, without incurring the burden of a high rate of taxation.

Fourth, It provides for a more equitable liquidation of the debt, by distributing the payment among those who are to derive the benefit of the improvements for which it was incurred.

Fifth, It furnishes us with the means of making permanent improvements, which are now nearly cut off by the law regulating the rate of taxation.

Sixth, It will enable us to materially relieve our citizens of the heavy burden which they have borne for so many years, by a large reduction in the amount of taxes annually assessed, and, consequently, add to the future growth and prosperity of our city.

HIGHWAYS.

Much to the satisfaction of the travelling public, the larger part of the appropriation for highways has been used in making repairs on the older streets ; and while many of them have been improved, there are many others which need the attention of the committee. It seems to me more money should be devoted to their use. An unusual number of sidewalks were built last year, requiring large expenditures from the highway appropriation to pave the gutters and grade the streets. It would be well to remember that a large appropriation for sidewalks requires a corresponding appropriation for highways.

Last year the city's gravel bank at Waltham was opened and connected by a side track with the Fitchburg Railroad ; so that in the future this department will have an abundant supply of good gravel, and a long-felt want will be filled. In accordance with an order passed by the City Council some time ago, the committee having charge of the highways set out all trees upon the streets, which were provided by the owners of property free of charge. Nothing adds more to the attractiveness of a place than plenty of shade-trees. I am happy to say that the committee was called upon to plant no less than two hundred and fifty-two shade-trees during the past season.

The amount expended in this department last year for highways was \$32,209.17, and the city's portion of the cost of new sidewalks was \$3,631.62. In the city there are 65 miles of streets.

STREET LIGHTS.

There are used in the city for street-lighting purposes at the present time 413 gas and 81 oil lamps, an increase during the past year of 19 gas and 11 oil lights. The cost of lighting and maintaining them in 1886 was \$8,464.75. The 70 naphtha lamps used in 1885 have all been changed to oil lamps. The city has been divided into four districts, and the lighting and care of the lamps placed in charge of four different individuals, all under the direction of the superintendent of street lights. By this change the lamps have been kept cleaner, and, consequently, have given more light. Three large gas lamps of three burners each have been placed in Union Square, one at the corner of Broadway and Franklin Street, one at the corner of Broadway and Marshall Street, and one in Davis Square. They give a good light, and are a great improvement, and one which cannot fail to give satisfaction to the citizens.

The question of lighting our streets with electricity is one which has been discussed some during the past year, and is one which you undoubtedly will be soon called upon to decide. No doubt I am expected to refer to the matter and express my opinion.

While there is nothing which I desire to say against electric lights, there is a question about the advisability of introducing them into Somerville for street-lighting purposes. The ground for objection is one of expense. It is necessary for us to count the cost; and if we do, it will be seen that to light our streets properly with electricity would require an increase in our street-light appropriation of at least twenty thousand dollars. While it is not likely that as much money would be used this year, it is probable that not less than thirty thousand dollars would be required in this department in a very short time. Of course the people will say, "Give us electric lights." The people are quite apt to favor any expenditure, and no doubt there will be quite a pressure brought to bear upon you for the location of a light on this spot, or that corner; the people of one street claiming as much right to have an electric light as those of another, and it is an argument which cannot be answered. Everybody will lose sight of the fact that increased expenditure brings increased taxes; but you should remember that you have been selected to decide what the city can afford to have, and what it must do without. The lighting of streets is a conven-

ience to the people, an aid to the police, and, to a certain extent, a protection to property; but I do not understand that it is recognized as a necessity, since it is not required by law. No doubt the city will be able in a few years to allow increased expenditure in this department, but the time has not yet come. When it does come, the first thing to be done, in my opinion, is to light the lamps we already have every night in the year, and keep them burning all night. They are now lighted twenty-two nights in a month, and kept burning until twelve o'clock.

The Somerville Electric Light Company have asked for certain privileges in the streets of our city, which, considering the request and the way in which it was granted, seem to me to be somewhat extraordinary. It does not seem right to me to allow this or any other company to pre-empt the streets of our city for any purpose. The property owners have some rights which should be respected. Many of them consider it a damage to their property to set a large pole in front of their house, and perhaps opposite their front door. They are unsightly, they obstruct the view, and are in every way objectionable. Whenever a company desire to run a line of poles through a street, they should be required to furnish a plan of said street, showing the exact spot where they desire to place a pole, and the owners of the property on that street should have an opportunity to object to the location, if they wish to. No pole should be placed in front of a man's property if he objects to it. The necessity of the case does not appear to me to be important enough to warrant the Board of Aldermen in locating such poles contrary to the wishes of the parties interested.

FIRE DEPARTMENT.

There has been no increase in the fire apparatus the past year. It consists, as formerly, of

One steam fire-engine and hose tender.

Four horse hose carriages.

One hook-and-ladder carriage.

Six thousand seven hundred feet of hose.

There is also in reserve, —

One steam fire-engine.

One horse hose carriage.

One hook-and-ladder carriage.

This reserve apparatus is not equipped with horses, hose, or ladders, but can be made available, in case of accident, to the regular service. The manual force consists of sixty-one men, as follows : —

One chief engineer. One assistant engineer.

Four hose companies, eight men each.

One engine company, twelve men.

One hook-and-ladder company, fifteen men.

The fire-alarm telegraph consists of thirty miles of wire, seventeen gongs, six tower-bell strikers, and thirty-nine alarm boxes. All of the apparatus and buildings of the department are in good condition.

It is thought by some that a new hose house should be built in Ward Four, and a new hose company formed ; but to my mind it is not necessary to put the city to this expense at present. The case does not seem to be any more urgent than it was five years ago ; and I believe the expenditure can be postponed a while longer with safety. Last year a special appropriation of \$1,000 was made for new fire hydrants. With this amount the water board put in twenty new hydrants. As I believe hydrants placed in close proximity to each other, with the force of water which we have, is our greatest protection against loss by fire, the policy of increasing the number of hydrants should be continued. I think an expenditure in this direction much wiser than the more costly method of increasing the fire apparatus. With hydrants near a fire, good hose, and men enough to handle it, a heavy loss is almost impossible in our city. The hydrants which the law requires the city of Boston to supply on the line of its water main through Somerville are almost worthless for the purposes for which they were intended. They are not the same kind or size as those we use. The same may be said of those supplied by the city of Cambridge in that portion of our territory which that city supplies with water. In view of these facts, it is recommended that the Mayor be requested to ask the authorities of those cities to replace them with hydrants of the same kind and size as those used by Somerville.

POLICE.

It affords me great pleasure to testify to the discipline of the force, and to the courage and ability of the officers and patrolmen. I believe it to be, according to its size, second to no force in the

State. It consists, as now organized, of twenty-one patrolmen, three sergeants, one captain, and one chief.

Considering the amount of territory the patrolmen have to cover (we have over sixty-five miles of streets), our large and increasing population, the rapidly increasing amount of property to be protected, it seems evident that the force is too small, and should be increased. I recommend that the force be increased by the addition of four patrolmen. An officer for each one thousand inhabitants cannot be considered too much.

The business of the department is rapidly increasing; the arrests annually have increased from 363, in 1880, to 646 in 1886. The population has increased 6,000 in the same time, and the number of buildings and the personal property which the police have to guard, have increased in proportion. One serious defect in our police arrangements, and one which should be remedied in the near future, is the lack of station-houses in East Somerville, Winter Hill, and Davis Square. One station-house for so large a territory is not sufficient.

The pay of the members of the force is a question which should receive your earnest consideration. It is for the interest of every law-abiding citizen that the force should consist of men who are honest, truthful, reliable, intelligent, and courageous, — men who will enforce all of the laws faithfully, impartially, and fully. In order to keep what we have, and in the future secure such, we must render a fair equivalent for their services.

POOR.

The amount granted the Board of Overseers the past year was \$15,000, only \$11,902.77 of which was used. To show the amount used each year since 1880 for the support of the poor, the following table is submitted: —

In 1880, cost to the city	\$14,241 56
1881, " "	14,097 25
1882, " "	14,732 96
1883, " "	14,103 47
1884, " "	15,757 69
1885, " "	14,933 24
1886, " "	11,902 77

This large reduction the past year has been made, not through any niggardly policy having been adopted, not by causing the

poor to suffer, or by neglecting their wants, but it is the result of the change of system under which the business has been managed, and through the efficiency of the Board and its subordinate officers. As long as our best citizens are willing to accept positions on this Board, we can rest assured that the poor will not be allowed to suffer, or the city be called upon to pay bills which should be paid by the State, or some other city or town.

The Board strongly recommend the erection of an almshouse, and your early attention to the matter is requested. If it is decided to build one, the recommendation of last year is renewed, — that it be built on the land on Broadway owned by the city, and known as the city farm.

PUBLIC PARK AND CENTRAL HILL.

The recommendation contained in the inaugural address of last year — that the care of the Public Park and of Central Hill, including the grounds about the public buildings, be transferred from the Highway Committee to a committee formed to take the place of the Committee on Burial Grounds — is renewed for the reasons stated in that address. It seems to me some money should be expended on Central Hill; great improvement can be made at a small expense. If we expect our citizens to spend their time and means in beautifying their residences, the city can do no less than to make its own property as attractive as possible. A committee with an appropriation and no other important business to attend to, can adopt a systematic plan to be carried out in the future, which will result in a great change and improvement; but a committee having so much to attend to as the Highway Committee cannot be expected to devote much time, or give much thought, to the care of either of these parks.

SCHOOLS.

There are 104 public schools in the city at the present time: 1 high school, 56 grammar and 47 primary schools, with 120 teachers. The average whole number of pupils for the year was 4,985; the average daily attendance of pupils for the year was 4,678; number of pupils in attendance in December, 5,317; number of school buildings owned by the city, 21. There will soon be added to this number two new four-room brick schoolhouses, which are now

being erected, one on Cherry Street, in Ward Four, and one on Lowell Street, in Ward Three. These two buildings were commenced last year on an appropriation of \$8,500 each. Land was purchased at a cost of \$1,929.60 for the Cherry-street lot, and \$1,880.64 for the lot on Lowell Street. The contract for the construction of both buildings amounted to \$21,000, so that the whole cost thus far has been \$24,800. As there has been but \$17,000 appropriated, and as the whole cost of the buildings, including land, heating apparatus, furniture, etc., will be about \$27,000, we shall be obliged to furnish \$10,000 more this year to complete them. The whole cost of these elegant and substantial buildings will not exceed the cost of the wooden ones lately erected. Without doubt, every one who sees them will say that it is good policy to build public buildings of brick.

The entire amount expended in the school department in 1886 was \$125,272.70, as follows: —

School teachers' salaries	\$80,942 26
School contingent	13,695 58
School fuel	4,928 94
Schoolhouse incidentals	8,705 92
New school buildings	<u>17,000 00</u>
Total	\$125,272 70

It is a matter of inquiry whether or not the amount now used cannot be reduced, and how it can be done. I would suggest that when a new teacher is needed in the lower grades, a graduate of our own schools be employed. There are many in our own city who would be glad to test their knowledge and ability in the schools where they themselves were educated, and who would be glad to do so for the minimum salary paid to inexperienced teachers. Would it not be as well to try some of them, as to hire away from some other city their highest-priced teachers? Another way to reduce the expenses of this department would be to give each teacher below the second class in the grammar schools fifty-six scholars, as is done in Boston. This plan would not only save teachers, but require a less number of school buildings. Of course it would be necessary to have pupils of different grades in the same room, and instructed by the same teacher; but would this be any disadvantage to the scholars? Cannot the whole system of grading, marking, and ranking of scholars be changed in such

a way as to produce even better results than the present? The teachers, under the present system, are overworked; it would be better and quite as easy for them if they had more pupils and less clerical work. Schools maintained at public expense, and designed for the education of the masses, should have only simple, practical, and fundamental courses of study, such studies as will best fit the scholars to engage in the practical duties of life, and enable them to earn their own living. Nothing further than this should be attempted at public expense, in my opinion. There has been an effort made during the past year to simplify the course of study and reduce expenses, with good success; and no doubt the School Committee realize the importance of continuing the effort. The wisdom and experience of those educators will be brought to bear upon these questions. We all understand that the people desire good schools, and expect and are willing to pay for them. They also expect us to give them the best possible results from their expenditure. I would not withhold any appropriation which may be necessary to an interest of such vital importance as the mental and moral training of our children.

SEWERS.

Eight thousand eight hundred ninety-nine and four-tenths (8,899.4) feet of sewers, or 1.7 miles, have been added to our splendid system of sewers the past year, making the total length of sewers in the city 39.4 miles. The cost of the new sewers in 1886 was \$11,597.11, the assessments were \$8,736.07, making the cost to the city \$2,861.04. The entire cost of the sewers in Somerville is nearly \$700,000 up to the present time.

WATER.

On the first day of last July a new contract with the city of Boston for the supply of Mystic water to our city was entered into. The terms of the new contract are substantially the same as those of the old one, except in the matter of the amount of money paid to Somerville by the city of Boston. Under the old contract, Boston paid to us on the annual receipts for water rates, up to the amount of \$20,000, fifteen per cent; on the amount in excess of \$20,000, and up to \$30,000, twenty per cent; from \$30,000 to \$40,000, twenty-five per cent; from \$40,000 to \$50,000, thirty

per cent; and on the amount in excess of \$50,000, forty per cent. Under the new contract, we are to receive fifty per cent on the entire amount paid to Boston by our water takers for the use of Mystic water. As this amounts at the present time to about \$80,000 annually, the operation of this new contract will increase the income of our city at least \$18,000 per annum. Our citizens are to be congratulated upon this favorable settlement of a long vexed question. No less favorable contract ever ought or need be entered into, in my opinion.

In pursuance of an order adopted by the City Council in November, 1886, your Mayor, in connection with the mayors of Boston and Chelsea and the selectmen of the town of Everett, petitioned the General Court for permission to take the water of the Shawshen River as an additional water supply.

As the water furnished by the Mystic watershed is now scarcely more than sufficient to furnish, in time of drought, water for those who use it, and as the population of all the cities and towns is rapidly increasing, it needs no argument to show that a wise foresight will secure this additional supply before it is taken for other purposes, and while the water can be procured in its natural state, and in season to protect it from contamination through sewage or other deleterious matter. It is our duty to furnish the people of the future with an abundant supply of pure water, if possible.

The Water Board used in their department last year, for the extension of pipes and maintenance of the works, the sum of \$15,040.94. As new streets are constantly being opened, and new houses being built, it is probable, if we intend to keep up with the improvements being made by our citizens, this department will need more money the coming year.

The total length of water mains in this city is fifty miles and three-quarters, of which one mile and a quarter was laid in 1886. Total number of hydrants in use, 343. Two hundred and ninety-two services were laid last year to accommodate dwellings.

CITY HALL.

In making the appropriation bill of last year, it was found to be impossible to provide for the completion of the improvements in the City Hall. It is hoped and expected that this year, owing to our improved financial condition, that the work will be com-

pleted. For description of work already done, and that required, see inaugural address of last year.

SUITS AT LAW.

The city has not for a long time been so free from litigation as at the present. There are no very important suits now pending.

You will allow me, gentlemen, in closing, to call your attention to certain rules, which, if adopted by you and kept constantly in mind, will enable you to perform the duties of your office satisfactorily to yourselves and to those who elected you. Some of these rules may be found in my inaugural address of last year or the year before. My experience teaches me that wherever they have been followed the city has been the gainer. The responsibility of fixing the amount to be expended in any department will rest with the City Council, not with the committee having the matter in charge; but the committee will be held responsible for the manner in which it is expended.

Committees should be cautious in their expenditures in the early part of the year, in order that they may not be obliged to postpone necessary improvements later in the season for the want of money.

Committees should keep their expenditures within the limits of their appropriation, since the bills cannot be paid when the appropriation is exhausted, unless there should be some unexpended balance in some other account.

Committees are not required or expected to use the entire appropriation credited to their account, unless the maintenance of their department absolutely requires it. It is impossible to divide the money raised by taxation exactly right among the different departments, and it is not unusual for some departments to have more money than is actually needed, and some others not quite enough. Members will realize the importance of keeping an unexpended balance to make up a deficiency which cannot be avoided in some other account.

Measures should be adopted for the good of the public, not for the benefit of private individuals, although needed improvements should not be postponed for the reason that they may benefit private interests and assist private enterprise.

In making appointments and electing officers, it should be remembered that political influence and power are not necessarily qualifications for office, but men should be selected solely on account of their peculiar qualifications for the positions they are to hold

Salaries should be fixed according to the requirements of the office, not to satisfy the wishes of the incumbent.

Each member should investigate all questions for himself; and while it is necessary and expected that he will understand and be governed somewhat by public sentiment, he should decide all questions, as far as his vote will decide them, according to the dictates of his own judgment.

Do not pledge yourself to support any measure until you have heard the arguments which may be produced against it.

Be prompt and constant in attendance at all meetings.

Your attention has been called briefly to the various departments of the city. The appropriations for the support of poor and of schools are required by law and to fulfil the obligations we owe to humanity; the fire and police departments are necessary for the protection of our persons and property; the highways, sidewalks, sewers, library, parks, water, and street lights are necessary for the convenience and happiness of the people. Members of the various boards and committees should remember that these departments are all necessary and equally important, and, while the city is able to provide for the maintenance of each, the interests of none should be advanced at the cost of another. While we may not appropriate as much money for a department as those having it in charge could use to good advantage, still the sum appropriated represents the amount the City Council have decided should be the limit of expenditure for that purpose.

And now, gentlemen, in our dealings with each other let there be no petty jealousies or unfounded criticisms, but let us all work together harmoniously for the best interests of the whole city, knowing no party and no section. If we conduct ourselves and our business in such a way as to retain our own self-respect, we shall receive the approval of all persons whose good opinion is worth preserving.

REPORT

OF THE

TREASURER AND COLLECTOR OF TAXES.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Feb. 8, 1888.

Referred to committee on finance, and sent down for concurrence.

GEO. I. VINCENT, *Clerk pro tem.*

IN COMMON COUNCIL, Feb. 9, 1888.

Referred to committee on finance in concurrence.

CHAS. S. ROBERTSON, *Clerk.*

IN COMMITTEE ON FINANCE, Feb. 13, 1888.

To the City Council of Somerville: — The committee on finance, to which was referred the annual report of the treasurer and collector of taxes for the year 1887, reports that the said report, and also the books and vouchers of the treasurer and collector have been examined by this committee in conjunction with the auditor, and have been compared with the auditor's book and with the statements received from the several committees, boards, and officers of the city, as required by ordinance, by which examination and comparison it appears that the report agrees with the books and vouchers, and that the treasurer's accounts are correct.

The cash on hand has been found to agree with the cash balance reported, by actual count and an inquiry at the banks of deposit; and our inspection of the work of the treasurer has proved highly satisfactory. It is, therefore, recommended that his report be accepted and printed in the annual reports.

MARK F. BURNS,	}	<i>Committee.</i>
G. D. WEMYSS,		
EDWARD H. BRADSHAW,		
GEO. O. PROCTOR,		
EZRA D. SOUTHER,		
CHAS. M. HEMENWAY,		
PATRICK F. DEADY,		
JOSEPH CUMMINGS,		

IN BOARD OF ALDERMEN, Feb. 21, 1888.

Accepted and referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, *Clerk pro tem.*

IN COMMON COUNCIL, Feb. 25, 1888.

Concurred in.

CHAS. S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

TREASURER'S OFFICE, Feb. 1, 1888.

To the Honorable the Mayor and City Council of the City of Somerville.

GENTLEMEN, — The undersigned presents herewith the sixteenth annual report of the financial condition of the city, and a statement showing in detail the receipts and disbursements of the several departments for the year ending Dec. 31, 1887.

The value of the property of the city Dec. 31, 1886, as appears by the schedule published with the last annual reports, was \$1,250,441.70, and the additions thereto were for amounts expended for completing the Bingham and Burns Schoolhouses, and furnishing the same: viz., —

On Bingham Schoolhouse (Lowell Street)	.	.	\$6,721	82
On Burns Schoolhouse (Cherry Street)	.	.	6,979	08
Furniture for Bingham Schoolhouse	.	.	551	33
“ “ Burns Schoolhouse	.	.	587	12

making the value of the public property Dec. 31, 1887, as per Table A, \$1,265,281.05.

The funded debt of the city stands the same as at the close of last year; viz., \$1,525,000.

Water-loan Bonds, Nos. 37 to 45	.	.	.	\$9,000	00
City-loan Bonds, Nos. 423 to 438	.	.	.	15,500	00
“ “ “ 373 to 412	.	.	.	40,000	00
“ “ “ 416 to 422	.	.	.	6,500	00

Amounting to	\$71,000	00
--------------	---	---	---	---	---	----------	----

bearing interest at five per cent, became due during the year, and were provided for by the issue of

Water-loan Bond, No. 277	\$9,000 00
City-loan Bond, No. 885	60,000 00
“ “ “ 886	2,000 00
<hr/>	
Amounting to	\$71,000 00

bearing interest at five per cent, sold to the commissioners of the sinking funds at par.

To provide for the payment of the State and county taxes, and for the current expenses of the city, the assessors' warrant was received for the tax levy assessed upon the polls and estates of the inhabitants as follows: viz., —

Real estate, valuation	\$25,219,900 00
Personal property, valuation	2,251,900 00
<hr/>	
Total valuation	\$27,471,800 00
At a rate of \$14.80 on \$1,000 valuation	
Amounting to	\$406,582 64
1,988 property polls.	
6,874 single polls.	
<hr/>	
8,862 polls at \$2 each	17,724 00
5 polls (women) at \$0.50 each	2 50
<hr/>	
Total amount of tax levy	\$424,309 14
To this amount is added the balance of	
Excess and Deficiency account for 1886	20,879 58
Received from city of Boston on water contract	42,650 57
Additional credits from all other sources	54,673 81
<hr/>	
making the total amount of resources for the year	
ending Dec. 31, 1887	\$542,513 10

The appropriations for the year provided for by the tax levy, the amounts transferred from other resources of the city, the additional amounts credited, the amounts expended, and the balances of the various accounts, were as follows: —

REPORT OF TREASURER AND COLLECTOR OF TAXES. 37

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
Fire Department:—			
Appropriation	\$26,000 00		
Received for old materials, etc. .		\$278 60	
Expenditures			\$26,735 09
Expended in excess of appropriation, etc.		456 49	
Health Department:—			
Appropriation	4,000 00		
Received for permits, licenses, etc.,		254 00	
Expenditures			4,543 42
Expended in excess of appropriation, etc.		289 42	
Highways:—			
Appropriation	38,000 00		
Received for labor and materials .		1,942 55	
Expenditures			39,710 75
Unexpended balance			231 80
Indigent Soldiers and Sailors:—			
Appropriation	600 00		
Received of State of Massachusetts		427 00	
Expenditures			854 00
Unexpended balance			173 00
Interest:—			
Appropriation	44,000 00		
Received interest, corporation, and bank taxes, etc.		18,483 54	
Expended			63,500 83
Expended in excess of appropriation, etc.		1,017 29	
Miscellaneous:—			
Appropriation . . . \$4,000 00			
Transferred to public grounds account. . . 500 00			
	3,500 00		
Received for costs on taxes, licenses, etc.		1,800 57	
Expenditures			5,741 34
Expended in excess of appropriation, etc.		440 77	
New Fire Hydrants:—			
Appropriation	800 00		
Expenditures			812 91
Expended in excess of appropriation		12 91	

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
Police:—			
Appropriation	\$8,000 00		
Transferred from excess and deficiency account		\$20,879 58	
Received for court fees, fines, etc.		2,788 17	
Expenditures			\$32,148 35
Expended in excess of resources .		480 60	
Police Station Incidentals:—			
Appropriation	2,000 00		
Received for rent		469 00	
Expenditures			1,906 21
Unexpended balance			562 79
Public Library:—			
Appropriation	3,500 00		
Received for dog licenses, etc. .		2,133 95	
Expenditures			4,621 78
Balance to be expended in 1888 .			1,012 17
Public Grounds:—			
Appropriation . . . \$7,000 00			
Transferred from miscellaneous account . . . 500 00			
	7,500 00		
Received for labor on rifle range .		251 76	
Expenditures			8,722 07
Expended in excess of appropriation		970 31	
Printing and Stationery:—			
Appropriation	3,000 00		
Expenditures			2,746 83
Unexpended balance			253 17
Salaries:—			
Appropriation	23,060 00		
Expenditures			23,126 41
Expended in excess of appropriation		66 41	
School Contingent:—			
Appropriation	14,000 00		
Received for tuition of non-resident pupils, etc.		197 58	
Expenditures			16,058 39
Expended in excess of appropriation, etc.		1,860 81	
School Fuel:—			
Appropriation . . . \$6,000 00			
Transferred to school-house incidentals account 1,000 00			
	5,000 00		

REPORT OF TREASURER AND COLLECTOR OF TAXES. 39

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
Expenditures.			\$5,475 17
Expended in excess of appropriation		\$475 17	
Schoolhouse Incidentals:—			
Transferred from water loan interest account		10,500 00	
Street lights . . . \$1,500 00			
School fuel . . . 1,000 00			
	\$2,500 00		
Received for use of ward-room		2 00	
Expenditures.			13,635 93
Expended in excess of resources		633 93	
School Teachers' Salaries:—			
Appropriation	\$2,000 00		
Received on salary account		15 00	
Expended			84,029 61
Expended in excess of appropriation		2,014 61	
Schoolhouse in Ward Two:—			
Appropriation. . . \$10,000 00			
Transferred to excess and deficiency account . . . 5,822 45			
	4,177 55		
Balance to be expended in 1888			4,177 55
Schoolhouse in Ward Three:—			
Appropriation	7,000 00		
Balance from 1886.		668 26	
Expenditures.			7,273 15
Balance to be expended in 1888			395 11
Schoolhouse in Ward Four:—			
Appropriation	7,000 00		
Balance from 1886.		816 68	
Expenditures			7,566 20
Balance to be expended in 1888			250 48
Sewers:—			
Appropriation	8,000 00		
Received for permits, etc.		304 59	
Expenditures.			8,649 07
Expended in excess of appropriation, etc.		344 48	
Sidewalks:—			
Appropriation	3,500 00		
Expenditures.			3,094 55
Unexpended balance			405 45

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
Sinking Fund Contributions:—			
Appropriation	\$40,725 00		
Expended			\$40,725 00
Street Lights:—			
Appropriation . \$13,000 00			
Transferred to school-house incidentals . 1,500 00			
	11,500 00		
Received for lamp-posts, etc. .		\$289 49	
Expenditures			10,582 18
Unexpended balance			1,207 31
Support of Poor:—			
Appropriation	14,000 00		
Received for support of paupers .		1,557 33	
Expenditures			13,430 89
Unexpended balance			2,126 44
Watering Streets:—			
Appropriation	3,000 00		
Received from abutters . .		6,048 33	
Expenditures			8,725 12
Unexpended balance			323 21
Water Maintenance:—			
Appropriation	7,000 00		
Transferred from water loan interest account. . .		15,800 00	
Received for labor and material .		711 17	
Expenditures			25,683 50
Expended in excess of appropriation, etc.		2,172 33	
Water Loan Interest:—			
Received from city of Boston for return on water rates . . \$42,650 57			
Transferred to other accounts . . 26,300 00			
		16,350 57	
Expended			16,125 29
Unexpended balance			225 28
County of Middlesex, County Tax:—			
Appropriation	14,089 10		
Expended			14,089 10
State of Massachusetts, State Tax:—			
Appropriation	30,127 50		
Expended			30,127 50
Overlay and Abatement:—			
Appropriation	907 54		
Balance from 1886		3,903 34	

REPORT OF TREASURER AND COLLECTOR OF TAXES. 41

Accounts.	Appropriations.	Additional Credits.	Expenditures and Balances.
Abatements on taxes			\$4,906 25
Abatements in excess of appropriation, etc.		\$95 37	
Excess and Deficiency:—			
Balance from 1886	\$20,879 58		
Transferred from other accounts	5,508 45		
Transferred to other accounts	\$26,388 03		
Transferred from schoolhouse, Ward Two, account	\$5,822 45		
Transferred to balance accounts, overdrawn			5,822 45
	<u>\$424,309 14</u>	<u>\$118,203 96</u>	<u>\$542,513 10</u>
Appropriations as per tax levy . .	\$424,309 14		
Excess and deficiency account, Jan. 1, 1887	20,879 58		
Water loan interest received from city of Boston	42,650 57		
Additional credits from various sources	43,342 91		
Accounts overdrawn	11,330 90		
Expenditures			\$531,182 20
Unexpended balances			5,508 45
Excess and deficiency account to balance			5,822 45
	<u>\$542,513 10</u>		<u>\$542,513 10</u>

The assets of the city available for the payment of its unfunded liabilities are as follows:—

Taxes	\$160,407 40
Real-estate liens	321 67
State of Massachusetts, State aid	3,470 00
State of Massachusetts, indigent soldiers and sailors,	415 00
Highway betterment assessments	50 00
Sidewalk assessments	2,566 34
Sewer assessments	4,438 87
Water service assessments	1,361 73
Cash	3,136 53
Total amount of available assets	\$176,167 54

The liabilities are : —

Temporary loans	\$170,000 00
Overplus on tax sales	102 13
Public Library	1,012 17
Sundry persons	230 10
Schoolhouse in Ward Two	4,177 55
Schoolhouse in Ward Three	395 11
Schoolhouse in Ward Four	250 48
Total amount of unfunded liabilities	<u>\$176,167 54</u>

The financial condition of the city, exclusive of its public property, is as follows : —

Funded debt, city loan	\$1,190,000 00
Funded debt, water loan	335,000 00
Total funded debt	<u>\$1,525,000 00</u>

The sinking funds are as follows : —

City-loan maturities	\$574,971 68
Water-loan maturities	79,333 61
Total amount of sinking funds	<u>\$654,305 29</u>
Net amount of city debt	\$615,028 32
Net amount of water debt	255,666 39
Net amount of funded debt	<u>\$870,694 71</u>

Total cash receipts for the year, including a balance

of \$9,579.75 from the year 1886, were	\$1,019,988 58
Total cash disbursements	<u>1,016,852 05</u>

Leaving in the treasury the sum of \$3,136 53

A detailed statement of the public property, funded debt, and receipts and disbursements of the various accounts will be found in the appendix following this report.

Respectfully submitted,

JOHN F. COLE,
Treasurer.

APPENDIX TO TREASURER AND COLLECTOR'S REPORT.

TABLE A.

PUBLIC PROPERTY, DEC. 31, 1887.

Central Hill land (12 acres, 27,920 feet)	.	.	\$100,000 00
City Hall	.	.	\$10,000 00
Furniture	.	.	3,000 00
			<hr/> 13,000 00
Public Library	.	.	8,500 00
Public Library building	.	.	28,338 45
Steam fire-engine house	.	.	\$10,000 00
Furniture	.	.	500 00
Steam fire-engine and apparatus	.	.	4,000 00
Steam fire-engine, hose-carriage, and apparatus	.	.	2,000 00
			<hr/> 16,500 00
High Schoolhouse	.	.	\$40,000 00
Furniture	.	.	3,500 00
Philosophical apparatus	.	.	500 00
			<hr/> 44,000 00
Prescott Schoolhouse, land (21,444 feet) and building	.	.	\$40,000 00
Furniture	.	.	2,000 00
			<hr/> 42,000 00
Luther V. Bell Schoolhouse, land (23,396 feet) and building	.	.	\$40,000 00
Furniture	.	.	3,000 00
			<hr/> 43,000 00
<i>Amount carried forward</i>	.	.	<hr/> \$295,338 45

<i>Amount brought forward.</i>	.	.	.	\$295,338 45
Forster Schoolhouse, land (27,499 feet) and building	.	.		\$37,922 24
Furniture	.	.	.	1,500 00
				<hr/> 39,422 24
Morse Schoolhouse, land (29,109 feet) and building	.	.		\$25,000 00
Furniture	.	.	.	1,000 00
				<hr/> 26,000 00
Highland Schoolhouse, land (23,260 feet) and building	.	.		\$32,000 00
Furniture	.	.	.	1,000 00
				<hr/> 33,000 00
Lincoln Schoolhouse, land (17,662 feet) and building	.	.		\$14,742 17
Furniture	.	.	.	744 93
				<hr/> 15,487 10
Prospect Hill Schoolhouse, land (25,313 feet) and building	.	.		\$20,000 00
Furniture	.	.	.	600 00
				<hr/> 20,600 00
Jackson Schoolhouse, land (11,212 feet) and building	.	.		\$8,000 00
Furniture	.	.	.	300 00
				<hr/> 8,300 00
Bennett Schoolhouse, land 20,560 feet) and building	.	.		\$8,000 00
Furniture	.	.	.	300 00
				<hr/> 8,300 00
Webster Schoolhouse, land (11,050 feet) and building	.	.		\$8,000 00
Furniture	.	.	.	300 00
				<hr/> 8,300 00
Union Schoolhouse, land (9,360 feet) and building	.	.		\$2,500 00
Furniture	.	.	.	100 00
				<hr/> 2,600 00
Harvard School, land (9,810 feet) and building	.	.		\$2,500 00
Furniture	.	.	.	100 00
				<hr/> 2,600 00
<i>Amount carried forward</i>	.	.	.	<hr/> \$459,947 79

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 45

<i>Amount brought forward</i>		\$459,947 79	
Edgerly Schoolhouse, land (26,428 feet) and building . .	\$25,000 00		
Furniture	500 00		
			25,500 00
Edgerly Schoolhouse, addition .	\$17,000 00		
Furniture	600 00		
			17,600 00
Brastow Schoolhouse, land (10,019 feet) and building . .	\$6,000 00		
Furniture	250 00		
			6,250 00
Franklin Schoolhouse, land (33,017 feet) and building . .	\$14,000 00		
Furniture	300 00		
			14,300 00
Beach Street Schoolhouse, land (6,000 feet) and building .	\$4,500 00		
Furniture	250 00		
			4,750 00
Spring Hill Schoolhouse, land (4,991 feet) and building .	\$1,600 00		
Furniture	100 00		
			1,700 00
Davis Schoolhouse, Tufts Street, land (29,584 feet) and building	\$17,606 22		
Furniture	726 99		
			18,333 21
Cummings Schoolhouse, School Street, land (11,300 feet) and building	\$14,643 21		
Furniture	714 16		
			15,357 37
Bingham Schoolhouse, Lowell Street, land (21,017 feet) and building	\$14,553 56		
Furniture	551 33		
			15,104 89
<i>Amount carried forward</i>		\$578,843 26	

<i>Amount brought forward</i>	.	.	.	\$578,843 26
Burns Schoolhouse, Cherry Street, land (16,080 feet) and building	.	.	.	\$14,662 40
Furniture	.	.	.	587 12
				<hr/>
				15,249 52
City farm, land (10 acres, 12,523 feet)	.	.	.	30,000 00
Cedar Street Schoolhouse	.	.	.	\$700 00
Furniture	.	.	.	100 00
				<hr/>
				800 00
City stables and dwelling-houses	.	.	.	7,000 00
Equipments for highway repairs	.	.	.	3,000 00
Watering-carts and sheds	.	.	.	2,300 00
No. 1 Hose-house, land (4,312 feet) and building	.	.	.	\$2,300 00
Furniture	.	.	.	400 00
John E. Wool hose-carriage and apparatus	.	.	.	2,000 00
				<hr/>
				4,700 00
No. 2 Hose-house, land (5,400 feet) and building	.	.	.	\$7,500 00
Furniture	.	.	.	300 00
Winter Hill hose-carriage and apparatus	.	.	.	2,000 00
				<hr/>
				9,800 00
No. 3 Hose-house, land (5,226 feet) and building	.	.	.	\$9,000 00
Furniture	.	.	.	300 00
George H. Foster hose-car- riage and apparatus	.	.	.	2,000 00
R. A. Vinal hook-and-ladder truck and apparatus	.	.	.	3,400 00
Prescott hook-and-ladder truck and apparatus	.	.	.	100 00
				<hr/>
				14,800 00
No. 4 Hose-house, land (9,100 feet) and building	.	.	.	\$11,000 00
Furniture	.	.	.	400 00
				<hr/>
				11,400 00
<i>Amounts carried forward</i>	.	.	.	\$666,492 78

Amounts brought forward .

George O. Brastow hose-carriage and apparatus	\$2,000 00	\$666,492 78
Relief hose-carriage	600 00	
	<hr/>	14,000 00
Fire-alarm telegraph		15,800 00
Police-station, land (15,232 feet) and building (Bow Street) .	\$40,000 00	
Furniture	3,000 00	
	<hr/>	43,000 00
Prospect Street, land (7,918 feet) and building .		7,000 00
Public Park (cost \$212,993.20)		125,000 00
Joy Street, land (2,960 feet)		500 00
Walnut Hill, land (10,890 feet)		1,000 00
Elm Street, land (18,000 feet)		3,600 00
Ledge-land on Bond Street (39,732 feet)		2,500 00
Holland Street (5 acres, 6,806 feet)		12,000 00
Somerville Avenue (39,456 feet)		5,000 00
Gravel-land in Waltham (about 35 acres)		15,000 00
Gravel-land in Wakefield (about $1\frac{1}{3}$ acres)		5,000 00
Gravel-land in Winchester (about 2 acres)		500 00
Somerville water-works (cost \$342,608.76)		341,000 00
Oliver Street. land (63,069 feet)		7,500 00
Whipple Street, land, lots Nos. 30 and 31 (15,240 feet)		388 27
		<hr/>
Total value of public property		\$1,265,281 05

TABLE B
FUNDED DEBT, DEC. 31, 1887.

Date.	Loan.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomination.	Amount.
1882. July 1,	City,	439 to 461,	5	1888. July 1,	\$1,000	\$23,000
1884. Oct. 1,	"	467 to 507,	4	Oct. 1,	1,000	41,000
1881. Jan. 1,	Water,	57 to 65,	5	1889. Jan. 1,	1,000	9,000
1880. Oct. 1,	"	46 to 54,	"	Oct. 1,	1,000	9,000
1884. Oct. 1,	City,	508 to 575,	4	" "	1,000	68,000
1880. Oct. 1,	Water,	55,	5	1890. Oct. 1,	9,000	9,000
1884. Oct. 1,	City,	576 to 646,	4	" "	1,000	71,000
" "	"	647 to 720,	"	1891. Oct. 1,	1,000	74,000
1881. Jan. 1,	Water,	66 to 76,	5	1892. Jan. 1,	1,000	11,000
Oct. 1,	"	78 to 88,	"	Oct. 1,	1,000	11,000
1884. Oct. 1,	City,	721 to 798,	4	" "	1,000	78,000
1885. July 1,	"	856 to 880,	"	1893. July 1,	1,000	25,000
Oct. 1,	Water,	89 to 99,	5	Oct. 1,	1,000	11,000
1884. Oct. 1,	City,	799 to 852,	4	" "	1,000	54,000
1881. Oct. 1,	Water,	100 to 111,	5	1894. Oct. 1,	1,000	12,000
1878. Jan. 1,	City,	335,	"	1895. Jan. 1,	37,000	37,000
" "	"	336,	"	" "	1,000	1,000
" "	"	338,	"	" "	2,000	2,000
1879. Jan. 1,	Water,	34,	"	" "	25,000	25,000
" "	City,	339,	"	" "	12,000	12,000
" "	"	340,	"	" "	1,500	1,500
" "	"	341,	"	" "	1,500	1,500
1880. Jan. 1,	"	346,	"	" "	2,000	2,000
" "	"	347,	"	" "	1,000	1,000
" "	"	348,	"	" "	5,500	5,500
1885. July 1,	"	881,	"	" "	54,000	54,000
" "	"	882,	"	" "	1,500	1,500
<i>Amount</i>		<i>carried forward</i>	. . .	. . .	. .	\$650,000

TABLE B — *Continued.*

Date.	Loan.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomination.	Amount.
	<i>Amount</i>	<i>brought forward</i>	. . .	. . .	. . .	\$650,000
1876.				1895.		
April 1,	City,	189,	5½	April 1,	\$35,500	35,500
Oct. 1,	"	190 to 194,	5	" "	5,000	25,000
" "	"	195 to 334,	"	" "	1,000	140,000
1879.						
April 1,	"	343,	"	" "	4,000	4,000
Oct. 1,	"	344,	"	" "	8,000	8,000
" "	"	345,	"	" "	25,000	25,000
1880.						
Oct. 1,	"	351,	"	" "	1,000	1,000
" "	"	352,	"	" "	42,500	42,500
1881.						
Oct. 1,	"	414,	"	" "	45,000	45,000
" "	"	415,	"	" "	1,000	1,000
1882.						
Oct. 2,	"	463,	"	" "	45,000	45,000
" "	"	464,	"	" "	2,000	2,000
1883.						
Oct. 1,	"	466,	"	" "	50,000	50,000
1884.						
Oct. 1,	"	854,	"	" "	52,000	52,000
" "	"	855,	"	" "	3,000	3,000
1886.						
April 1,	"	883,	"	" "	1,000	1,000
Oct. 1,	"	884,	"	" "	60,000	60,000
1887.						
Oct. 1,	"	885,	"	" "	60,000	60,000
" "	"	886,	"	" "	2,000	2,000
1883.						
July 1,	Water,	112 to 124,	"	July 1,	1,000	13,000
1876.				1896.		
July 1,	Sewer,	1 to 7,	"	July 1,	5,000	35,000
1882.						
July 1,	Water,	125 to 136,	"	" "	1,000	12,000
" "	"	137,	"	" "	500	500
" "	"	138 to 151,	"	1897.		
" "	"	152 to 166,	"	July 1,	1,000	14,000
" "	"	167 to 181,	"	1898.		
" "	"	182,	"	July 1,	1,000	15,000
" "	"	183 to 194,	"	1899.		
" "	"		"	July 1,	1,000	15,000
" "	"		"	" "	500	500
" "	"		"	1900.		
" "	"		"	July 1,	1,000	12,000
	<i>Amount</i>	<i>carried forward</i>	. . .	. . .	. . .	\$1,369,000

TABLE B — *Concluded.*

Date.	Loan.	Number of Bonds.	Rate per cent of Interest.	When due.	Denomination.	Amount.
	<i>Amount</i>	<i>brought forward</i>	. . .	. . .	. . .	\$1,369,000
1882. July 1, 1884.	Water,	195,	5	1900. July 1,	\$500	500
Oct. 1,	"	200 to 202,	4	Oct. 1,	1,000	3,000
" "	"	203 to 212,	"	1901. Oct. 1,	1,000	10,000
1885. July 1,	"	214 to 219,	"	July 1,	1,000	6,000
" "	"	220 to 226,	"	1902. July 1,	1,000	7,000
1886. July 1,	"	229 to 238,	"	" "	1,000	10,000
" "	"	239 to 256,	"	1903. July 1,	1,000	18,000
" "	"	257 to 266,	"	1904. July 1,	1,000	10,000
1877. Oct. 1,	"	33,	5	Oct. 1,	5,000	5,000
1879. Jan. 1,	"	35,	"	1905. Jan. 1,	5,000	5,000
1885. July 1,	"	227,	"	" "	7,000	7,000
1876. April 1,	"	29,	5½	April 1,	4,500	4,500
1880. Oct. 1,	"	56,	5	" "	5,500	5,500
1881. Oct. 1,	"	77,	"	" "	6,000	6,000
1882. Oct. 2,	"	196,	"	" "	6,500	6,500
" "	"	197,	"	" "	1,000	1,000
1883. Oct. 1,	"	198,	"	" "	6,500	6,500
" "	"	199,	"	" "	1,000	1,000
1884. Oct. 1,	"	213,	"	" "	7,000	7,000
1886. April 1,	"	228,	"	" "	7,500	7,500
1887. Oct. 1,	"	277,	"	" "	9,000	9,000
1876. July 1,	"	30 and 31,	5½	1906. July 1,	5,000	10,000
1886. July 1,	"	267 to 276,	4	1907. July 1,	1,000	10,000
<i>Total Funded Debt . . .</i>						\$1,525,000

TABLE C.

STATEMENT OF ACCOUNTS, SHOWING APPROPRIATIONS,
EXPENDITURES, ETC., TO DEC. 31, 1887.

APPROPRIATIONS.

CREDIT.

Taxes, amount assessed for current expenses .	\$379,185 00
Property and debt balance	71,000 00
	<hr/>
	\$450,185 00

DEBIT.

Fire Department	\$26,000 00
Health Department	4,000 00
Highways	38,000 00
Indigent soldiers and sailors	600 00
Interest	44,000 00
Miscellaneous	4,000 00
New fire hydrants	800 00
Police	8,000 00
Police station incidentals	2,000 00
Public Library	3,500 00
Public grounds	7,000 00
Printing and stationery	3,000 00
Renewals of funded debt	71,000 00
Salaries	23,060 00
School contingent	14,000 00
School fuel	6,000 00
School teachers' salaries	82,000 00
Schoolhouse in Ward Two	10,000 00
Schoolhouse in Ward Three	7,000 00
Schoolhouse in Ward Four	7,000 00
Sewers	8,000 00
Sidewalks	3,500 00
Sinking fund contributions	40,725 00
Street lights	13,000 00
Support of poor	14,000 00
Watering streets	3,000 00
Water maintenance	7,000 00
	<hr/>
	\$450,185 00

CASH.

CREDIT.

County of Middlesex	\$14,089 10	
Funded debt	71,000 00	
Fire Department	26,735 09	
Health Department	4,543 42	
Highways	38,904 75	
Indigent soldiers and sailors	854 00	
Interest	63,350 83	
Miscellaneous	5,741 34	
New fire hydrants	812 91	
Overplus on tax sales	131 83	
Police	32,148 35	
Police station incidentals	1,906 21	
Public Library	4,621 78	
Public grounds	8,722 07	
Printing and stationery	2,746 83	
Salaries	23,126 41	
School contingent	16,058 39	
School fuel	5,475 17	
Schoolhouse incidentals	13,635 93	
School teachers' salaries	84,029 61	
Schoolhouse in Ward Three	7,273 15	
Schoolhouse in Ward Four	7,566 20	
Sewers	14,852 38	
Sidewalks	6,199 45	
Sinking fund contributions	40,725 00	
Street lights	10,582 18	
Support of poor	13,430 89	
State of Massachusetts	30,127 50	
State aid	3,626 00	
Sundry persons	1,196 34	
Temporary loans	405,000 00	
Watering streets	8,725 12	
Water maintenance	25,683 50	
Water services	7,150 03	
Water-loan interest	16,080 29	
	<hr/>	\$1,016,852 05
Balance to debit in account 1888		3,136 53
		<hr/>
		\$1,019,988 58

Amount brought forward \$1,019,988 58

DEBIT.

Balance	\$9,579 75
Funded debt.	71,000 00
Fire Department	278 60
Health Department	254 00
Highways	1,942 55
Highway betterment assessments .	131 24
Interest	18,480 34
Miscellaneous	1,761 32
Overlay and abatement	06
Police	2,788 17
Police station incidentals	469 00
Public Library	2,133 95
Public grounds	251 76
Real-estate liens	475 44
School contingent	197 58
Schoolhouse incidentals.	2 00
School teachers' salaries	15 00
State of Massachusetts, State aid .	3,703 00
State of Massachusetts, indigent soldiers and sailors	463 00
Sidewalk assessments	3,985 53
Sewer assessments	8,232 30
Sewers	304 59
Street lights	289 49
Support of poor	1,557 33
State aid	13 00
Temporary loans	425,000 00
Taxes	410,564 29
Watering streets	6,048 33
Water maintenance	589 45
Water services	504 81
Water-service assessments	6,322 13
Water-loan interest	42,650 57
	<hr/>
	\$1,019,988 58

COUNTY OF MIDDLESEX.

CREDIT.

Taxes, amount assessed . . .	\$14,089 10
------------------------------	-------------

DEBIT.

Cash, paid county tax . . .	<u>\$14,089 10</u>
-----------------------------	--------------------

EXCESS AND DEFICIENCY.

CREDIT.

Balance from 1886 . . .	\$20,879 58	
Highways, credit balance of account	231 80	
Indigent soldiers and sailors, credit balance of account . . .	173 60	
Police station incidentals, credit balance of account . . .	562 79	
Sidewalks, credit balance of account	405 45	
Street lights, " " " "	1,207 31	
Support of poor, credit balance of account	2,126 44	
Watering streets, credit balance of account	323 21	
Water-loan interest, credit balance of account	225 28	
Printing and stationery, credit balance of account	253 17	
Schoolhouse in Ward Two, transferred	5,822 45	
	<u> </u>	\$32,210 48

DEBIT.

Police, balance of 1886 transferred	\$20,879 58
Overlay and abatement, debit balance of account	95 37
Fire Department, debit balance of account	456 49

<i>Amounts carried forward . . .</i>	<u>\$21,431 44</u>	<u>\$32,210 48</u>
--------------------------------------	--------------------	--------------------

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 55

<i>Amounts brought forward</i>	\$21,431 44	\$32,210 48
Health Department, debit balance of account	289 42	
Interest, debit balance of account	1,017 29	
Police, " " " "	480 60	
Salaries, " " " "	66 41	
School contingent, debit balance of account	1,860 81	
School fuel, debit balance of account	475 17	
Schoolhouse incidentals, debit balance of account	633 93	
School teachers' salaries, debit balance of account	2,014 61	
Water maintenance, debit balance of account	2,172 33	
Miscellaneous, debit balance of account	440 77	
New fire hydrants, debit balance of account	12 91	
Sewers, debit balance of account	344 48	
Public grounds, debit balance of account	970 31	
	<hr/>	<hr/>
		\$32,210 48

FUNDED DEBT.

CREDIT.

Balance from 1886	\$1,525,000 00
Cash, received for sale of	
City-loan Bond, No. 885	\$60,000 00
" " " 886	2,000 00
Water-loan Bond, No. 277	9,000 00
	<hr/>
	71,000 00
	<hr/>
	\$1,596,000 00

DEBIT.

Cash, paid : —

City-loan Bonds, Nos. 423 to 437	\$15,000 00
City-loan Bond, No. 438	500 00
	<hr/>

<i>Amounts carried forward</i>	\$15,500 00	\$1,596,000 00
--	-------------	----------------

<i>Amounts brought forward</i>	.	\$15,500 00	\$1,596,000 00
City-loan Bonds, Nos. 373 to			
412	. . . . .	40,000 00	
City-loan Bond, No. 416	.	500 00	
City-loan Bonds, Nos. 417 to			
422	. . . . .	6,000 00	
Water-loan Bonds, Nos. 37 to			
45	. . . . .	9,000 00	
		<hr/>	
		\$71,000 00	
Balance to credit in account, 1888.		1,525,000 00	
		<hr/>	
			<u>\$1,596,000 00</u>

FIRE DEPARTMENT.

CREDIT.

Appropriations, amount assessed	.		\$26,000 00
Cash, received of Eugene Gormley two			
horses	. . . . .	\$125 00	
E. P. Dunbar, old copper, etc.	.	84 60	
Lorenzo W. Dow, manure	. .	56 00	
John Mitchell, stove	. . .	8 00	
Charles Holmes, stove	. . .	5 00	
		<hr/>	
			278 60
Excess and deficiency, balance to debit			
of account	. . . . .		456 49
			<hr/>
			\$26,735 09

DEBIT.

Cash, paid James R. Hopkins, chief			
engineer	. . . . .	\$1,200 00	
Nathaniel C. Barker, assistant en-			
gineer	. . . . .	300 00	
Steamer engineer	. . . . .	1,080 00	
Steamer fireman	. . . . .	900 00	
Seven drivers.	. . . . .	6,300 00	
Daniel J. Bennett, substitute driver	.	8 00	
William H. Dennis,	" " .	112 50	
		<hr/>	
<i>Amounts carried forward</i>	.	\$9,900 50	<u>\$26,735 09</u>

<i>Amounts brought forward</i>	.	.	\$9,900 50	\$26,735 09
William A. Perry, substitute driver,			137 74	
William A. McLane, " "	.		33 87	
Joseph Sanders, " "	.		4 84	
Charles A. Kirkpatrick, " "	.		35 00	
Steamer Engine Company	.	.	786 00	
John E. Wool Hose Company	.		685 75	
Winter Hill Hose Company	.	.	691 00	
George H. Foster Hose Company	.		691 00	
George O. Brastow Hose Company,			689 74	
R. A. Vinal Hook-and-ladder Com-				
pany	.	.	1,356 00	
Sundry call-men, extra services	.		24 50	
City of Boston, water for hydrants	.		1,848 00	
" " " water for houses	.		105 00	
Seward Dodge, blacksmithing and				
horseshoeing	.	.	86 81	
Timothy O'Brien, horseshoeing	.		72 15	
Charles Maguire, " "	.	.	45 85	
W. H. Richardson, " "	.	.	42 00	
Charles W. Ingalls, " "	.	.	35 40	
Everett E. Onley, " "	.	.	2 00	
E. Teel & Co., repairing apparatus	.		39 40	
Union Square Carriage Company,				
repairing apparatus	.	.	6 75	
J. Leland, repairing apparatus	.		4 25	
I. H. Brown, " "	.	.	1 00	
D. W. Crocker, " "	.	.	75	
Galen M. Bowditch, repairing appa-				
ratus	.	.	30 45	
Hill & Langtrety, harness fittings	.		44 96	
D. J. Bennett, repairing harness	.		22 20	
E. Spalding, " "	.		32 69	
T. Ivers & Son, straps	.	.	11 50	
Sturtevant Brothers, horses	.	.	300 00	
C. H. & Edgar Snow, horses	.	.	550 00	
Welch & Hall, horses	.	.	200 00	
Fred C. Fuller, carpenter work	.		162 90	
<i>Amounts carried forward</i>	.		\$18,680 00	\$26,735 09

<i>Amounts brought forward</i>	\$18,680 00	\$26,735 09
George W. Trefren, jun., carpenter work	297 93	
F. A. Chandler	280 27	
Melvin & Chandler	173 09	
C. F. Palmer, mason work	51 07	
A. M. Sibley " "	7 25	
W. L. Snow, hardware, etc.	38 32	
H. W. Raymond, " "	25 55	
Howe & Flint, " "	8 20	
Whitney & Snow, " "	4 10	
E. Kendall & Son, tools	31 44	
Charles A. Legallee, plumbing	21 93	
J. A. Davlin, "	3 64	
H. W. Covell & Co., "	11 04	
Joseph H. Hollis, painting and glazing	4 00	
J. C. Dyer, painting and glazing	128 05	
W. H. Pring, " " "	13 50	
Nathan Tufts & Son, grain	489 47	
A. F. Whitcomb, hay and straw	401 54	
A. M. Prescott, " " "	286 06	
James E. Whitaker & Co., hay	173 56	
Hewey Skillings, straw	4 81	
B. F. Wild & Co., fuel	324 66	
Horatio Wellington & Co., fuel	45 00	
A. A. Sanborn, steam fitting	38 06	
Edwin Rogers, fire-alarm apparatus, American Steam Gauge Co., repairing gauge, etc.	601 44	
Scrannage Bros. & Cook, couplings, Ingalls & Kendrick, bars	4 50	
C. Callahan & Co., nozzle, etc.	3 35	
Andrew S. Jackson, " "	75	
J. Hinman, agent fire extinguisher, etc.	19 00	
Boston Belting Co., hose	61 30	
Boston Woven Hose Co., hose, etc.	90 00	
	11 00	
	1,109 40	
<i>Amounts carried forward</i>	\$23,443 28	\$26,735 09

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 59

<i>Amounts brought forward</i>	\$23,443 28	\$26,735 09
American Fire Hose Manufacturing Co., repairing, etc.	10 00	
Silsby Manufacturing Co., flues, etc.	190 81	
S. F. Hayward & Co., tank and frame for extinguisher	1,000 00	
Fox, Maxner, & Co., ladders	19 00	
Bishop & Bros., “	9 80	
George L. Baxter, lighters	9 00	
Charles Holmes & Son, repairing pipes, etc.	65 16	
Boston Nickel Plating Co., plating	2 00	
E. H. Buxton, varnishing steamer, etc.	50 00	
John L. Crafts, canvas and rope	15 40	
C. S. Knowles, covering steps	4 00	
Burnson & Gladding, rubber suit	8 00	
H. T. Ewell, coal box	10 00	
Geo. G. Page Box Co., cases	6 00	
S. Armstrong, stable pails	7 50	
Union Glass Co., jars	14 00	
Nicholas & Bartaux, ballisters	10 00	
Somerville Iron Foundry Co., castings	3 77	
L. C. Seavey, slating	32 37	
Albert A. Libby & Co., paving	295 98	
S. B. Manning & Co., cleaning clocks	2 75	
Beattie Battery Zinc Electrical Co., zinc, etc.	11 88	
Thomas Hollis, vitriol, etc.	170 79	
Albert L. Russell, “ “	31 27	
Elijah Walker, carpenter work	60 15	
J. A. Durell, hardware, etc.	8 47	
A. G. Whitcomb, chairs	9 00	
J. Elliot Bond, carpet, etc.	30 00	
S. D. Hicks & Son, copper, etc.	18 50	
G. K. Paul & Co., waste	4 40	
<i>Amounts carried forward</i>	\$25,553 28	\$26,735 09

<i>Amounts brought forward</i>	.	\$25,553 28	\$26,735 09
J. W. Brine, bedding, etc.	.	49 25	
F. A. Rolfe, flannel	.	50	
Scoville Manuf. Co., buttons	.	13 50	
Smith & Anthony Stove Co., clean- ing furnace	.	1 50	
A. W. Hastings, windows	.	2 30	
E. M. Burgen, sheathing	.	6 00	
H. W. Burgess, oil, etc.	.	3 29	
Knowles Bros., salt	.	60	
Edward E. Rice, potash	.	21 66	
George H. Cowdin, camphor	.	2 06	
E. F. Chaffee, drugs	.	60	
E. J. H. Ferguson, drugs	.	45	
J. A. McLane, use of horse	.	20 00	
L. H. Brown, " "	.	2 00	
H. P. Wellcome, carriage hire	.	10 00	
Hall's English Food Co., food	.	3 00	
A. A. Jackson, grinding axes	.	2 10	
S. J. Wood, filing saws	.	1 60	
M. H. Tattan, refreshments	.	4 25	
W. W. Fish, " "	.	20 30	
Cambridge Gas Light Co., gas	.	215 03	
Charlestown Gas Co., " "	.	104 16	
W. A. Greenough, directory	.	2 00	
S. W. Fuller, lumber	.	13 44	
J. F. Ayer, " "	.	2 76	
Leander Greeley, lumber	.	1 75	
Ramsey Clark, setting glass	.	1 00	
New England Telephone and Tele- graph Co., rentals and tolls	.	60 98	
Charles L. Bly, poles and setting	.	54 80	
J. O. Hayden & Co., printing	.	51 50	
Charles Orton, paper hanging	.	28 50	
I. H. Brown, mouldings	.	2 50	
J. E. Abbott, veterinary services	.	40 10	
H. B. Willis, " "	.	26 00	
W. S. Walker, glazing	.	6 45	
<i>Amounts carried forward</i>	.	\$26,329 21	\$26,735 09

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 61

<i>Amounts brought forward</i>	.	.	\$26,329 21	\$26,735 09
Kendall & Roberts, doors	.	.	8 00	
Mrs. Calvert, washing	.	.	36 02	
Samuel H. Stevens, washing	.	.	26 76	
Thomas H. Daly, "	.	.	30 88	
E. W. Ring, "	.	.	19 48	
J. A. Buxton, "	.	.	13 69	
Mary A. Brown, "	.	.	10 44	
India Alkali Works, savogran	.	.	23 30	
T. Spellman, soap	.	.	8 00	
Crane & Hanscome, premium of insurance	.	.	75 00	
W. C. Crane, premium of insurance,	.	.	18 75	
Dexter F. Bennett, premium of insurance	.	.	5 00	
Dennis Ryan, labor	.	.	12 75	
P. A. Cullen, "	.	.	11 25	
H. Weitz, labor	.	.	10 00	
John H. Belsher, labor	.	.	8 75	
G. L. Blackbird, "	.	.	7 50	
E. R. Perham, expressing	.	.	34 81	
George T. Day, "	.	.	24 35	
Thorpe's Express, "	.	.	12 70	
Gilman & Co., "	.	.	1 90	
Barster & Tibbetts, "	.	.	1 90	
George G. Glines, "	.	.	15	
William F Keene, labor	.	.	4 50	
			<hr/>	\$26,735 09
				<hr/>

HEALTH DEPARTMENT.

CREDIT.

Appropriations, amount assessed	.	.	.	\$4,000 00
Cash, received of George I. Vincent, permits to keep swine and goats, and collect grease	.	.	.	\$254 00
Excess and deficiency, balance to debit of account	.	.	.	289 42
			<hr/>	543 42
<i>Amount carried forward</i>	.	.	.	<hr/> \$4,543 42

Amount brought forward \$4,543.42

DEBIT.

Cash, paid William H. Brine, salary as inspector	\$1,000 00
Jeremiah McCarthy, collecting ashes,	1,898 51
Henry Gray, collecting offal	900 00
Sundry persons, burying dead ani- mals	71 50
George H. Cowdin, peppermint tubes	48 30
P. W. Skinner, fumigating	6 00
Thomas Waterman, vaccine virus	13 00
Photo-Electrotype Engraving Co., maps	9 00
George A. Kimball, map of sewer- age	55 56
J. O. Hayden, printing, etc. . . .	80 70
Aaron R. Gay, stationery	23 25
E. S. Tobey, rent of post-office box,	2 00
J. M. Corse, " " " "	1 00
Howe & Flint, hardware	4 78
Whitney & Snow, "	3 50
J. M. Robinson & Co., tools	62
George C. Bonner, carriage hire	20 50
R. T. Blackwell, carriage hire	3 00
William D. Hayden, officers' fees	2 16
Charles S. Cahill, M.D., investigat- ing nuisances	111 12
F. A. Dunbar, M.D., investigat- ing nuisances	100 77
City of Cambridge, investigating nuisances	15 35
Dana W. Hyde & Co., investigat- ing nuisances	4 99
Daniel Regan, labor	38 06
Robert H. Shaw, labor	24 50
Robert Chew, labor	6 13

Amounts carried forward \$4,444 30 \$4,543 42

<i>Amounts brought forward</i>	.	.	\$4,444 30	\$4,543 42
Daniel Sullivan, labor	.	.	7 00	
L. B. Angier, "	.	.	3 25	
J. A. Lavity, "	.	.	2 00	
A. J. Brown, "	.	.	1 75	
M. Grogan, "	.	.	1 75	
Sewers account, catch-basin, etc.	.		83 37	
				<u>\$4,543 42</u>

HIGHWAYS.

CREDIT.

Appropriations, amount assessed	.	.	.	\$38,000 00
Cash, received of Marian Spry, driveway,			\$15 53	
H. S. Pond, driveway	.	.	3 17	
S. L. Cummings, driveway	.	.	3 00	
William H. Thomas, jun., driveway,			7 76	
H. E. Hall, driveway	.	.	10 56	
R. W. Willey, "	.	.	6 02	
J. W. Rand, sidewalk	.	.	38 24	
L. P. Hollander, sidewalk	.	.	7 42	
E. Streeter Brooks, "	.	.	42 90	
Benjamin F. Thompson, sidewalk	.		31 75	
C. W. Kingsley, sidewalk	.	.	139 49	
L. R. Bacon, "	.	.	47 73	
Charles E. Randall, "	.	.	54 00	
John Medina, edgestones	.	.	28 39	
Fred C. Fuller, "	.	.	20 50	
James Coliton, "	.	.	26 66	
George H. Hills, "	.	.	30 49	
O. S. Knapp, "	.	.	33 26	
E. S. Sparrow, "	.	.	18 56	
Helen M. Hollander, edgestones	.		9 79	
Mary P. Otis, edgestones	.	.	11 34	
H. G. Bean, pasturage	.	.	120 00	
R. M. Baldwin, hay	.	.	10 00	
Patrick Stewart, "	.	.	5 00	
Thomas Ormand, rent	.	.	72 00	
Arthur Murley, "	.	.	64 00	
<i>Amounts carried forward</i>	.	.	\$857 56	<u>\$38,000 00</u>

<i>Amounts brought forward</i> . . .	\$857 56	\$38,000 00
William A. Muzzy, stone for filling, . . .	1 50	
Sidewalks account, teaming, gravel, etc.	619 31	
Public grounds account, labor and teaming	451 52	
Watering streets account, labor and materials	12 66	
	<hr/>	1,942 55
		<hr/>
		\$39,942 55

DEBIT.

Cash, paid laborers	\$22,028 02	
Frank G. Williams, salary as superintendent of streets	1,500 00	
Board of horses	522 29	
Welch & Hall, horses	775 00	
E. Ham & Co., "	575 00	
Frank G. Williams, horses	250 00	
Proctor Brothers, grain, etc.	182 80	
C. H. Proctor, " "	587 70	
Nathan Tufts & Son, grain, etc.	500 92	
R. W. Willey & Co., " "	425 66	
Fulton O'Brien, " "	114 62	
J. A. Litchfield, meal	5 46	
Charles Bartley, "	2 40	
James E. Whitaker, hay	347 26	
A. M. Prescott, "	174 35	
Timothy O'Brien, horseshoeing	435 75	
P. O'Neil, horseshoeing	18 50	
C. W. Ingalls, "	7 58	
G. McDormand, horseshoeing	3 26	
Seward Dodge, blacksmithing	326 76	
F. Dooris, blacksmithing	276 95	
D. W. Crocker, wheelwright work, etc.	75 45	
J. Leland, wheelwright work	55 00	
John Kennedy, wheelwright work	3 50	
	<hr/>	
<i>Amounts carried forward</i>	\$29,194 23	\$39,942 55

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 65

<i>Amounts brought forward</i>	\$29,194 23	\$39,942 55
American Road Machine Company, scraper, etc.	259 75	
Farrell Foundry and Machine Co., castings for crusher	28 69	
S. L. Holt & Co., repairing crusher,	3 55	
Joseph Breck & Son, repairing plows,	3 25	
Osgood & Hart, castings	30 00	
Hussey, Howe, & Co., steel	9 10	
Whitney & Snow, hardware, etc.	166 11	
H. W. Raymond, " "	47 20	
J. A. Durell, " "	18 04	
Howe & Flint, " "	1 85	
W. L. Snow, " "	3 50	
George Dunbar, waste	12 54	
Folger & Dupont, plumbing	8 30	
J. F. Davlin, " "	1 00	
S. L. Holt & Co., repairing pump	6 60	
J. Lincoln Collins & Co., screens	21 00	
J. M. Cusken, tools	10 00	
George D. Goodrich, drain pipe	8 73	
George H. Mason & Co., lantern	3 00	
James Forgie, harnesses, etc.	303 50	
E. Spalding, repairing harnesses	181 61	
N. L. Pennock, " "	18 25	
D. J. Bennett, " "	3 00	
Hill & Langtrey, harness work	16 16	
F. A. Rolfe, blankets	2 00	
William E. Jones, carpenter work	53 75	
S. J. Wright, " "	8 73	
J. Q. Twombly, painting signs	68 11	
J. F. Ayer & Co., lumber	169 82	
S. Walker & Co., oil	41 65	
J. P. Squire & Co., oil	6 00	
Charles W. Badger, " "	2 42	
Snow Flake Oil Co., axle grease,	12 00	
J. F. Jones, cylinder oil	7 60	
Horatio Wellington & Co., fuel	263 49	
<i>Amounts carried forward</i>	\$30,994 53	\$39,942 55

<i>Amounts brought forward</i>	\$30,994 53	\$39,942 55
H. Gove & Co., round stone	492 03	
Albert A. Libby & Co., round stone	270 40	
John P. Downey, paving-blocks, etc.	1,897 29	
Sanborn & Hatch, bricks	326 15	
John Thresher, " "	271 50	
Fitchburg Railroad Co., freight on gravel	2,580 90	
Boston & Providence Railroad, freight	69	
Jeremiah McCarthy, teaming, etc.	288 77	
George McKenna, " "	200 00	
Timothy P. Crimmings, " "	140 20	
Martin Gill, teaming, etc.	120 00	
J. F. Elkins, " "	20 00	
William Hamilton, mowing	20 00	
George H. Sampson, powder, etc.	232 15	
Cheney & Myrick, drugs	17 20	
G. O. Cheney & Co., drugs	14 44	
Charles H. Crane, drugs	5 65	
Town of Medford, half cost of maintaining Middlesex Bridge	402 38	
City of Waltham, tax	122 40	
Town of Wakefield, tax	26 94	
Town of Winchester, tax	10 69	
City of Boston, water	70 41	
J. O. Hayden & Co., advertising, etc.	63 00	
Aaron R. Gay & Co., stationery	58 75	
New England Telephone and Telegraph Co., rentals and tolls	76 90	
W. C. Crane, premium of insurance,	15 00	
Boston Woven Hose Co., hose	22 00	
Waldo Brothers, hammers	3 23	
S. J. Wood, filing saws	7 65	
George W. Bragdon, filing saws	50	
Charles R. Simpson, veterinary services	5 00	
<i>Amounts carried forward</i>	\$38,776 75	\$39,942 55

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 67

<i>Amounts brought forward</i>	\$38,776 75	\$39,942 55
R. T. Blackwell, carriage hire	9 00	
H. M. Chase, carriage hire	5 00	
Blackall's Express, expressing	2 00	
Middlesex Registry of Deeds, re- cording papers	3 25	
Sewers account, drain pipe	22 44	
Highway betterment assessments account, abatements made by order of the court	806 00	
Bowman & Perry, costs in suit R. B. Stickney v. City of Somerville,	62 31	
Samuel C. Darling, paid by him for witness fees	24 00	
	<hr/>	
	\$39,710 75	
Excess and deficiency, balance to credit of account	231 80	
	<hr/>	
		<u>\$39,942 55</u>

HIGHWAY BETTERMENT ASSESSMENTS.

CREDIT.

Cash, received of sundry persons, assess- ments	\$131 24	
Highways, assessments abated	806 00	
	<hr/>	
	\$937 24	
Balance to debit in account 1888	50 00	
	<hr/>	
		\$987 24

DEBIT.

Balance from 1886		<u>\$987 24</u>
-------------------	--	-----------------

INDIGENT SOLDIERS AND SAILORS.

CREDIT.

Appropriations, amount assessed	\$600 00	
State of Massachusetts (indigent soldiers and sailors), one-half of amount paid in 1887	427 00	
	<hr/>	
<i>Amount carried forward</i>		\$1,027 00

Amount brought forward \$1,027 00

DEBIT.

Cash, paid sundry persons	\$854 00	
Excess and deficiency, balance to credit of account	173 00	
		<u>\$1,027 00</u>

INTEREST.

CREDIT.

Appropriations, amount assessed		\$44,000 00
Real-estate liens, interest on titles to the city on property deeded for non-payment of taxes	\$3 20	
Cash, received on deposits in banks . . .	825 30	
On taxes and assessments	6,027 65	
Of State treasurer, national bank tax	4,317 22	
Corporation tax	6,315 55	
Foreign ships tax	927 30	
On tax titles released	64 82	
F. S. Moseley, premium on note	2 50	
		<u>18,483 54</u>
Excess and deficiency, balance to debit of account		1,017 29
		<u>\$63,500 83</u>

DEBIT.

Cash, paid on funded debt:—	
\$35,500, one year at $5\frac{1}{2}$ per cent . .	\$1,952 50
728,000, one year at 5 per cent . . .	36,400 00
15,500, six months at 5 per cent . . .	387 50
411,000, one year at 4 per cent . . .	16,440 00
	<u>\$55,180 00</u>
Less coupons unpaid	150 00
	<u>\$55,030 00</u>
Sundry persons, coupons unpaid . . .	150 00
	<u>\$55,180 00</u>

Amount carried forward \$63,500 83

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 69

<i>Amount brought forward</i>	.	.	.	.	\$63,500 83
Cash, paid on temporary loans : —					
Commonwealth of Massachusetts, on note of \$75,000, four months at $3\frac{7}{8}$ per cent	.	.	.	.	\$968 75
Commonwealth of Massachusetts, on note of \$75,000, four months at $3\frac{7}{8}$ per cent	.	.	.	.	968 75
F. S. Moseley & Co., discount on note of \$25,000 six months at $5\frac{1}{2}$ per cent	.	.	.	.	687 50
Commonwealth of Massachusetts, on note of \$75,000, seven months at $3\frac{7}{8}$ per cent	.	.	.	.	1,695 31
Commonwealth of Massachusetts, on note of \$125,000, seven months at $3\frac{7}{8}$ per cent	.	.	.	.	2,825 52
Commonwealth of Massachusetts, on note of 25,000, eight months at $3\frac{3}{4}$ per cent	.	.	.	.	625 00
Commonwealth of Massachusetts on note of \$30,000, four months at $5\frac{1}{2}$ per cent	.	.	.	.	550 00
					<u>\$8,320 83</u>
On funded debt	.	.	.	.	\$55,180 00
On temporary loans	.	.	.	.	8,320 83
					<u>\$63,500 83</u>

MISCELLANEOUS.

CREDIT.

Appropriations, amount assessed	.	.	.	\$4,000 00
Real-estate liens, costs on titles to the city on property deeded for non- payment of taxes	.	.	.	\$39 25
Cash, received of sundry persons, costs on property sold and prepared for sale for non-payment of taxes and assessments	.	.	.	759 00
<i>Amounts carried forward</i>	.	.	.	<u>\$798 25</u>
				<u>\$4,000 00</u>

<i>Amounts brought forward</i>	.	.	\$798 25	\$4,000 00
On real-estate liens released	.	.	12 00	
Sundry persons, liquor licenses	.	.	20 00	
Thomas Cunningham, milk inspector's fees	.	.	137 00	
Mark F. Burns, county fees	.	.	2 00	
Samuel C. Darling, city solicitor's costs	.	.	33 07	
Charles E. Gilman, city clerk:—				
Marriage certificates	.		\$172 00	
Recording mortgages,				
etc.	.	.	276 00	
Licensing dogs	.	.	230 00	
Junk licenses	.	.	74 00	
Liquor licenses	.	.	20 00	
Auctioneers' licenses	.	.	14 00	
Billiard tables licensed,			6 00	
Miscellaneous	.	.	6 25	
			<hr/> 798 25	
				<hr/> 1,800 57
Excess and deficiency, balance to debit of account.				440 77
				<hr/> \$6,241 34

DEBIT.

Cash, paid S. P. Kirk, carpenter work	.	.	\$110 41	
F. A. Chandler,	"	"	16 35	
Wm. A. Muzzy,	"	"	15 00	
Melvin & Chandler,	"	"	7 98	
Harry Holt,	"	"	6 05	
Leonard Arnold,	"	"	2 50	
R. A. Stevens,	"	"	1 20	
George W. Burckes,	"	"	1 00	
D. P. Buckman, mason work	.	.	14 00	
A. M. Sibley,	"	"	13 00	
A. C. Winning,	"	"	11 50	
Tucker & Titus, plumbing	.	.	45 50	
J. F. Davlin,	"	.	7 69	
C. A. Legallee,	"	.	3 35	
			<hr/> \$255 53	
<i>Amounts carried forward</i>	.	.		<hr/> \$6,241 34

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 71

<i>Amounts brought forward</i>	.	.	\$255 53	\$6,241 34
Wm. H. Poole, plumbing	.	.	2 10	
Walburg & Woehrn, fresco painting,			41 20	
J. Q. Twombly, painting	.	.	34 97	
D. W. McDermott, "	.	.	27 09	
Whitney & Snow, hardware	.	.	51 85	
H. W. Raymond, "	.	.	17 19	
Bigelow & Dowse, "	.	.	37 38	
Howe & Flint, "	.	.	23 28	
J. A. Durell, "	.	.	22 99	
William Hall & Co., "	.	.	3 58	
Jackson Caldwell & Co., cuspi-				
dores . . . . .	.	.	15 87	
T. H. Buck & Co., lumber	.	.	370 00	
I. H. Brown & Co., "	.	.	14 74	
E. D. Sawyer & Co., "	.	.	3 96	
Enoch Robinson, brass grill	.	.	25 00	
Damon Safe and Iron Works Co.,				
repairs . . . . .	.	.	2 50	
C. P. Whitcomb, repairing chairs	.	.	1 80	
Charles E. Gilman, disbursements	.	.	18 14	
A. L. Russell, repairing igniter	.	.	1 70	
Densmore & Brackett, windows	.	.	9 25	
Walter R. Wightman, mat	.	.	15 00	
O. F. Page, mop . . . . .	.	.	1 00	
George E. Ricker & Co., cleaning				
carpets . . . . .	.	.	2 44	
P. Derby & Co., chair . . . . .	.	.	1 50	
Fox, Maxner, & Co., ladder	.	.	11 90	
Ingalls & Kendricken, grate bars	.	.	14 70	
James Benson, oiling flag-staff	.	.	15 00	
Holland & Daniels, shade and fix-				
tures . . . . .	.	.	6 30	
Daniel Crocker, repairing clock	.	.	1 50	
Union Glass Co., globes	.	.	1 25	
C. M. Blake, newspapers	.	.	6 00	
Brine & Norcross, brushes and				
combs . . . . .	.	.	3 50	
<i>Amounts carried forward</i>	.	.	\$1,060 21	\$6,241 34

<i>Amounts brought forward</i>	.	\$1,060 21	\$6,241 34
F. G. Ray & Co., towels, etc.	.	4 20	
J. H. Brooks, " "	.	5 47	
James Baker, bunting	.	4 00	
C. E. Cobb, crape, etc.	.	14 75	
James Delay, floral tribute	.	50 00	
M. A. Mann, laundrying, etc.	.	26 00	
Jairus Mann, paid for horse keep- ing, etc.	.	123 12	
Watching at City Hall	.	40 00	
William K. Porter, horse	.	260 00	
George W. York & Co., buggy	.	260 00	
Hill & Langtrety, harness, etc.	.	41 67	
C. W. Saben, carriage robe	.	9 00	
Union Square Carriage Co., repairs,	.	12 25	
Charles Waugh & Co., "	.	3 00	
E. Spalding, repairing harness	.	1 85	
Timothy O'Brien, horseshoeing	.	11 00	
Thomas Hollis, drugs	.	4 20	
Charles Bartley, alcohol, etc.	.	13 05	
Buff & Berger, engineers' instru- ments	.	159 45	
Wadsworth, Howland, & Co., engi- neers' supplies	.	83 76	
Pulsifer, Jordan, & Pfaff, engineers' supplies	.	5 00	
S. M. Spencer, type	.	4 59	
J. P. Lowell Arms Co., engineers' supplies	.	70	
Engineers' assistants, car-fares, etc.	.	12 12	
E. S. Tobey, rent of post-office box,	.	2 00	
J. M. Corse, " " " "	.	1 00	
Aaron R. Gay & Co., stationery	.	12 61	
R. M. Pulsifer, advertising	.	3 00	
Journal Newspaper Co., advertising,	.	2 00	
Globe Newspaper Co., "	.	1 50	
Boston Transcript Co., "	.	1 00	
A. W. Mitchell, rubber stamps	.	3 05	
<i>Amounts carried forward</i>	.	\$2,235 55	\$6,241 34

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 73

<i>Amounts brought forward</i>	.	.	\$2,235 55	\$6,241 34
B. F. Freeman, photographs	.	.	43 00	
A. A. Sanborn, steam-fitting	.	.	8 22	
B. F. Wild & Co., fuel	.	.	201 77	
Cambridge Gas Light Co., gas	.	.	287 93	
City of Boston, water	.	.	23 44	
New England Telephone and Tele-				
graph Co., rentals and tolls	.	.	86 15	
Calvin Horton & Son, use of tools	.	.	12 00	
S. H. Libby, services as auctioneer,			10 50	
H. D. & W. S. Durgin, ice	.	.	65 00	
E. J. Burt, directory	.	.	2 00	
Edward D. Wiswell, clerical ser-				
vices	.	.	87 00	
Charles S. Robertson, clerical ser-				
vices	.	.	15 00	
Clara M. Smith, clerical services	.	.	21 50	
May Dwyer, " "	.	.	14 50	
Beulah M. Peirce, " "	.	.	8 00	
Amy L. Manning, " "	.	.	3 00	
Charles A. Small, pound-keeper, 2				
years	.	.	50 00	
Noah Harding, sealer of weights				
and measures	.	.	100 00	
Ward officers	.	.	288 00	
George D. Wildes, use of Clarendon				
Hall	.	.	45 00	
Philip Eberle, use of hall	.	.	25 00	
M. Stevenson, " "	.	.	10 00	
Standard Cancellling Ballet Box				
Co., repairs	.	.	5 20	
Creeseey & Noyes, repairing ballet				
box	.	.	6 22	
J. A. McLane, posting	.	.	59 00	
S. J. Wood, keys	.	.	7 25	
J. M. Coburn, labor	.	.	10 00	
W. H. Denton, " "	.	.	4 00	
Joseph Gott, " "	.	.	4 00	
<i>Amounts carried forward</i>	.	.	\$3,738 23	\$6,241 34

<i>Amounts brought forward</i>	. . \$3,738 23	\$6,241 34
George L. Blackbird, labor	. . 1 75	
Sturtevant Brothers, turkeys for Thanksgiving	. . . . 81 73	
L. Stockbridge, turkeys for Thanks- giving	. . . . 59 76	
W. S. Ward, turkeys for Thanks- giving	. . . . 33 40	
J. B. Eastman, turkeys for Thanks- giving	. . . . 25 56	
J. F. Couch, return of births	. 41 50	
R. L. Lane, " "	. 5 00	
E. A. Sanborn, " "	. 3 50	
J. A. Gregg, " "	. 2 50	
H. B. McIntire, " "	. 1 25	
George Cullis, " "	. 180 25	
Affidavit of posting	. . . 54 50	
William A. Flaherty, return of deaths	. . . . 25 00	
Estate of H. B. Runey, return of deaths	. . . . 19 50	
Horace D. Runey, return of deaths,	6 00	
E. H. Marsh, " "	17 50	
P. H. Rafferty & Co., return of deaths	. . . . 15 00	
C. H. Lockhart, return of deaths	. 14 75	
J. W. Coveney, " "	. 9 50	
W. H. Way, veterinary services	. 20 00	
Middlesex Registry of Deeds, re- cording	. . . . 5 95	
Commonwealth of Massachusetts, one-fourth of amount received for liquor licenses	. . . . 5 00	
R. T. Blackwell, carriage hire and horse keeping	. . . . 237 18	
Samuel Giddings, carriage hire	. 10 00	
A. M. Prescott, teaming	. . 30 00	
William J. Loudon, expressing	. 12 90	
<i>Amounts carried forward</i>	. . \$4,657 21	\$6,241 34

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 75

<i>Amounts brought forward</i>	.	.	\$4,657 21	\$6,241 34
J. Brownlow, expressing	.	.	6 00	
George G. Glines, "	.	.	2 10	
Stilphen & Co., "	.	.	85	
James Deacon, labor at City Hall	.		75	
Public grounds account, labor at rifle range	.	.	251 76	
W. A. Crowell, labor at rifle range,			16 00	
Crane & Hanscome, premium of insurance	.	.	187 50	
Samuel C. Darling, disbursements	.		95 42	
J. Tyler Hicks & Co., refreshments,			51 00	
William Read & Sons, powder	.		59 75	
W. P. J. O'Malley, firing guns	.		21 00	
Willard C. Kingsly Post			139	
G. A. R., contribution for observance of Memorial Day	.	.	300 00	
S. S. Young, ringing bells	.	.	6 00	
A. M. Sibley, " "	.	.	12 00	
G. W. Littlefield, ringing bells	.		9 00	
E. G. Dean, " "	.	.	6 00	
J. H. Colbath, " "	.		3 00	
L. M. Maynard, labor at cemetery,			56 00	
			<u>\$5,741 34</u>	
Public grounds account, transferred	.		500 00	
			<u></u>	<u>\$6,241 34</u>

NEW FIRE HYDRANTS.

CREDIT.

Appropriations, amount assessed	.	.	.	\$800 00
Excess and deficiency, balance to debit of account,				12 91
				<u>\$812 91</u>

DEBIT.

Cash, paid Chapman Valve Manufacturing Co., hydrants, etc.	.	.	\$805 83	
Holyoke Hydrant and Iron works, castings	.	.	7 08	
			<u></u>	<u>\$812 91</u>

OVERLAY AND ABATEMENT.

CREDIT.

Balance from 1886	\$3,903 34
Taxes, amount added to the amount of taxes assessed as fractional divisions for convenience in apportionment, to be applied to abatement on taxes	907 54
Excess and deficiency, balance to debit of account .	95 37
	<hr/>
	\$4,906 25

DEBIT.

Taxes, for amount of abatements on taxes	<u>\$4,906 25</u>
--	-------------------

OVERPLUS ON TAX SALES.

CREDIT.

Balance from 1886	\$233 96
-----------------------------	----------

DEBIT.

Cash, paid sundry persons, overplus received on sale of their estates	\$131 83
Balance to credit in account 1888	102 13
	<hr/>
	<u>\$233 96</u>

PROPERTY AND DEBT BALANCE.

CREDIT.

Renewals of funded debt	\$71,000 00
Public property acquired during the year 1887	14,839 35
Balance to debit in account 1888	259,718 95
	<hr/>
	\$345,558 30

DEBIT.

Balance from 1886	\$274,558 30
Appropriations	71,000 00
	<hr/>
	<u>\$345,558 30</u>

PUBLIC PROPERTY.

CREDIT.

Balance to debit in account 1888	\$1,265,281 05
--	----------------

DEBIT.

Property and debt balance, property ac-		
quired during the year	\$14,839 35	
Balance from 1886	1,250,441 70	
	<hr/>	\$1,265,281 05
		<hr/>

PUBLIC LIBRARY.

CREDIT.

Appropriations, amount assessed	\$3,500 00
Cash, received of county treasurer, return	
on dog licenses for 1886 .. .	\$1,835 46
H. A. Adams, librarian, fines . . .	271 74
“ “ “ catalogues . . .	21 75
D. L. Gurnsey, book	5 00
	<hr/>
	2,133 95
	<hr/>
	\$5,633 95

DEBIT.

Cash, paid Little, Brown, & Co., books .	\$1,061 42	
Laughton, Macdonald, & Co., “ .	261 84	
Houghton, Mifflin, & Co., “ .	61 50	
L. A. Roberts, “ .	44 75	
D. Appleton & Co., “ .	26 80	
Henry C. Nash, “ .	125 80	
Estes & Lauriat, “ .	20 00	
L. Prang & Co., “ .	15 50	
B. B. Russell, “ .	13 75	
Bradley & Whidden, “ .	22 00	
W. B. Clarke & Carruth, “ .	12 71	
Charles Macdonald & Co., “ .	9 40	
Roberts Brothers, “ .	173 50	
J. M. Usher, “ .	6 00	
W. T. Sladen, “ .	2 00	
	<hr/>	
<i>Amounts carried forward . . .</i>	\$1,856 97	\$5,633 95

<i>Amounts brought forward</i>	.	.	\$1,856 97	\$5,633 95
H. L. Collimore, books	.	.	3 75	
J. R. Pease, " "	.	.	4 00	
B. A. Fowler & Co., books	.	.	6 50	
W. H. Thompson & Co., books	.	.	3 50	
William L. Chaffin, " "	.	.	5 00	
J. C. Stockbridge, " "	.	.	5 50	
A. M. Bridgman & Co., " "	.	.	4 75	
S. F. G. Wilder, " "	.	.	1 50	
R. R. Bowker, books, etc.	.	.	3 20	
Forum Publishing Co., books	.	.	1 67	
J. G. Roberts & Co., binding books	.	.	103 30	
Ira Bradley & Co., " "	.	.	5 00	
Babb & Stephens, printing, etc.	.	.	259 63	
C. M. Blake, newspapers	.	.	18 00	
W. S. Hixon & Co., marble work	.	.	14 49	
John F. Ayer, lumber	.	.	1 84	
Whitney & Snow, hardware	.	.	4 65	
Charles Bartley, utensils	.	.	3 82	
W. H. Pool, globes and burners	.	.	4 85	
H. W. Raymond, globes	.	.	2 87	
N. Chamberlain & Co., ribbon for stamp	.	.	4 50	
Z. Flemming, carpenter work	.	.	66 31	
Harry Holt, " "	.	.	2 35	
F. A. Chandler, " "	.	.	2 40	
Melvin & Chandler, carpenter work	.	.	2 10	
A. C. Winning, mason work	.	.	186 93	
B. F. Wild & Co., fuel	.	.	220 50	
Cambridge Gas Light Co., gas	.	.	141 35	
City of Boston, water	.	.	30 00	
L. M. Maynard, labor on grounds	.	.	30 75	
Joseph Young, " " "	.	.	3 42	
William J. Loudon, expressing	.	.	23 30	
A. M. Prescott, moving books	.	.	2 25	
H. A. Adams, librarian	.	.	700 00	
Lizzie A. Stevens, librarian's assistant	.	.	323 98	
<i>Amounts carried forward</i>	.	.	\$4,054 93	\$5,633 95

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 79

<i>Amounts brought forward</i>	. . . \$4,054 93	\$5,633 95
Charlotte A. Hopkins, librarian's assistant	. . . . . 300 00	
Anna L. Stone, librarian's assistant	. . . . . 76 10	
Lillian Wyeth, " "	. . . . . 53 50	
Amy Manning, " "	. . . . . 46 50	
Mary Warren, " "	. . . . . 3 60	
Irving Dadman, " "	. . . . . 36 55	
Harry Pillsbury, " "	. . . . . 48 60	
Mary L. Aldrich, copying	. . . . . 2 00	
	<hr/>	
	\$4,621 78	
Balance to credit in account 1888	. . . . . 1,012 17	
	<hr/>	
		<u>\$5,633 95</u>

PRINTING AND STATIONERY.

CREDIT.

Appropriations, amount assessed \$3,000 00
---------------------------------	----------------------

DEBIT.

Cash, paid J. O. Hayden & Co., printing and advertising	. . . . . \$1,461 69	
McDonnell Brothers, printing and advertising	. . . . . 266 25	
Babb & Stephens, printing	. . . . . 107 00	
Aaron R. Gay & Co., stationery	. . . . . 514 23	
Thomas Groom & Co., " "	. . . . . 366 91	
Little, Brown, & Co., " "	. . . . . 9 75	
The Cyclostyle Company, cyclostyle and paper	. . . . . 17 00	
E. J. Burt, directory	. . . . . 4 00	
	<hr/>	
	\$2,746 83	
Excess and deficiency, balance to credit of account	. . . . . 253 17	
	<hr/>	
		<u>\$3,000 00</u>

PUBLIC GROUNDS.

CREDIT.

Appropriations, amount assessed	\$7,000 00
Miscellaneous account transferred	500 00
Cash, miscellaneous account, labor on rifle range	\$251 76
Excess and deficiency, balance to debit of account	970 31
	<hr/>
	1,222 07
	<hr/>
	\$8,722 07

DEBIT.

Cash, paid laborers	\$1,843 57
Timothy F. Crimmings, grading Central Hill	4,219 46
Walter Bates & Son, concreting	765 31
Dennis Ryan, sodding, etc.	643 26
John Turner & Co., paving	248 20
B. McCarroll, blasting	28 00
Jeremiah Donovan, loam	84 95
Martin Gill, teaming	32 67
T. F. Crimmings, loam and dress- ing	55 53
John Maloy, dressing	18 51
L. M. Maynard, "	65 94
J. F. Ayer, lumber	20 00
E. D. Sawyer & Co., lumber	1 65
Joseph Breck & Son, lawn seed, etc.	69 78
Parker & Wood, lawn seed, etc.	3 75
G. H. Hills & Co., " " "	60
Thomas Young, plants	50 00
L. A. Wright, repairing mower	2 25
F. Dooris, " "	1 75
S. Walker & Co., oil	3 66
J. H. Hollis, glazing	6 00
H. W. Raymond, tools, etc.	33 62
	<hr/>
<i>Amounts carried forward</i>	<i>\$8,198 46</i>
	<hr/>
	<i>\$8,722 07</i>

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 81

<i>Amounts brought forward</i>	.	.	\$8,198 46	\$8,722 07
J. A. Durell, tools, etc.	.	.	6 34	
Whitney & Snow, tools, etc.	.	.	2 70	
G. W. Manning, labor on flag-staff,			18 00	
James Baker, bunting	.	.	3 20	
J. O. Hayden & Co., printing	.	.	3 00	
Aaron R. Gay & Co., brand	.	.	1 50	
City of Boston, water	.	.	5 00	
E. R. Perham, expressing	.	.	4 80	
George W. Munroe, "	.	.	1 00	
Joseph Young, labor	.	.	20 00	
James Deacon, "	.	.	1 75	
Highways account, labor and team-				
ing	.	.	451 52	
Daniel Radley, teaming	.	.	4 80	
				<u>\$8,722 07</u>

POLICE.

CREDIT.

Appropriations, amount assessed	.	.	.	\$8,000 00
Excess and deficiency, transferred	.	.	.	20,879 58
Cash, received of H. A. Chapin, clerk of				
court, for officers' fees, fines, etc.			\$2,778 67	
J. W. Oliver, revolver	.	.	9 50	
				<u>2,788 17</u>
Excess and deficiency, balance to debit				
of account	.	.	.	480 60
				<u>\$32,148 35</u>

DEBIT.

Cash, paid M. C. Parkhurst, chief	.	\$1,700 00	
R. R. Perry, captain	.	1,400 00	
Samuel R. Dow, sergeant	.	1,100 00	
Edward McGarr, "	.	1,100 00	
C. C. Cavanagh, "	.	1,100 00	
George W. Bean, patrolman,	.	1,003 75	
Samuel A. Brown, "	.	1,003 75	
George A. Bodge, "	.	1,003 75	
Edward M. Carter, "	.	1,003 75	
Eugene A. Carter, "	.	1,003 75	
<i>Amounts carried forward</i>	.	\$11,418 75	\$32,148 35

<i>Amounts brought forward</i>	.	\$11,418 75	\$32,148 35
George H. Carlton, patrolman	.	1,003 75	
John E. Fuller, " "	.	1,003 75	
Edd. F. Fales, " "	.	882 75	
John Hafford, " "	.	1,003 75	
Edward E. Hamblin, " "	.	1,003 75	
John F. Johnson, " "	.	1,003 75	
Myron H. Kingsley, " "	.	1,003 75	
Dennis Kelley, " "	.	1,003 75	
Ivan Laighton, " "	.	1,003 75	
Herbert H. Miller, " "	.	1,003 75	
Judson W. Oliver, " "	.	1,003 75	
P. W. Skinner, " "	.	1,003 75	
Albion L. Staples, " "	.	1,003 75	
George L. Smith, " "	.	1,003 75	
Patrick J. Bench, " "	.	973 75	
James F. Foley, " "	.	772 50	
Charles L. Ellis, " "	.	732 50	
William H. Johnston, " "	.	775 00	
Francis A. Perkins, " "	.	892 50	
Charles S. Thrasher, " "	.	770 00	
A. S. Arnold, patrolman (special)	.	6 00	
D. P. Bucknam, " "	.	68 00	
Albert Fiske, " "	.	2 00	
Edward L. Grant, " "	.	234 00	
T. E. Herron, " "	.	214 00	
J. A. McLane, " "	.	48 00	
Peter J. Savage, " "	.	10 00	
Peter Savage, " "	.	40 00	
B. F. Sheridan, " "	.	38 00	
Fred. H. Terrill, " "	.	68 00	
M. C. Parkhurst, lock-up keeper	.	100 00	
" " disbursements	.	8 00	
R. R. Perry, car fares, etc.	.	2 43	
S. R. Dow, " " "	.	41 08	
C. C. Cavanagh, car fares, etc.	.	20 81	
Dennis Kelley, " " "	.	3 14	
Edward M. Carter, car fares, etc.	.	1 24	
<i>Amounts carried forward</i>	.	\$31,171 20	\$32,148 35

<i>Amounts brought forward</i>	\$31,171 20	\$32,148 35
Richard Keefe, photographing	6 50	
Rich & Harding, " "	6 00	
G. W. Simmons, wreaths,	9 00	
J. P. Lovell's Sons, equipments	85 00	
H. A. Winship, " "	83 00	
D. Cutler, repairing badges	1 50	
Jackson, Caldwell, & Co., furniture, etc.	6 50	
Giles & Fullerton, furniture, etc.	6 00	
C. M. Blake, newspapers,	15 00	
Aaron R. Gay, stationery	32 50	
M. R. Warren, " "	14 50	
Thomas Groom & Co., stationery	11 40	
J. O. Hayden & Co., printing	14 50	
Little, Brown, & Co., law books	6 50	
E. J. Burt, directory	2 00	
New England Telephone and Tele- graph Co., rentals and tolls	56 10	
H. D. & W. S. Durgin, ice	60 00	
Autocopyist Co., autocopyist	12 00	
J. W. Gilpatrick, iron gates	12 00	
Howe & Flint, dippers	6 00	
H. W. Raymond, hardware	2 10	
F. G. Ray & Co., towels	5 69	
Elizabeth Avery, washing	23 28	
Sturtevant Brothers, supplies	8 98	
W. K. Young, meals	6 60	
R. T. Blackwell, horse keeping, etc.	315 28	
Timothy O'Brien, horseshoeing	17 62	
Union Square Carriage Co., repairs,	71 35	
E. Spalding, harness work	4 25	
P. M. McGovern, carriage hire	4 00	
H. M. Weld, " "	3 00	
P. H. Wellcome, " "	1 00	
W. J. Reid, veterinary services	17 00	
Henry Fournier, assisting officer	3 00	
Daniel R. Spike, labor	1 00	
L. H. Brown, carriage hire	47 00	
		<u>\$32,148 35</u>

POLICE STATION INCIDENTALS.

CREDIT.

Appropriations, amount assessed		\$2,000 00
Cash, received of Commonwealth of		
Massachusetts, rent of armory . .	\$400 00	
Somerville Co-operative Bank, use		
of court room	45 00	
John M. Woods, use of hall	15 00	
George E. Guthrie, " " "	8 00	
Henry W. Pitman, " " "	1 00	
	<hr/>	469 00
		<hr/>
		\$2,469 00

DEBIT.

Cash, paid Wm. D. Hayden, janitor . .	\$764 00	
Cambridge Gas Light Co., gas . .	446 17	
A. A. Sanborn, steam fitting . . .	19 10	
Fred. Davis, mason work	21 00	
A. C. Winning, mason work	8 07	
L. C. Seavey, slating	31 29	
Melvin & Chandler, carpenter work,	60 47	
Leonard Arnold, " "	32 23	
H. W. Raymond & Co., hardware . .	43 91	
Whitney & Snow, "	1 50	
S. J. Wood, keys	1 00	
E. Spalding, sponges	1 40	
J. Q. Twombly, glazing	7 75	
Daniel W. McDermott, painting . .	6 87	
C. A. Legallee, plumbing	8 06	
Union Glass Co., globes	4 00	
Howe & Flint, repairing lantern . .	2 55	
George F. Ricker, laying carpet . .	2 08	
B. S. Tobey & Co., mat	11 25	
Wakefield Rattan Co., mat	8 80	
W. L. Fox & Co., washing com-		
pound	6 25	
George H. Cowdin, powder	4 10	
	<hr/>	
<i>Amounts carried forward</i>	<i>\$1,491 85</i>	<i>\$2,469 00</i>

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 85

<i>Amounts brought forward</i>	.	.	\$1,491 85	\$2,469 00
B. F. Wild & Co., fuel	.	.	359 36	
W. C. Crane, premium of insurance,			20 00	
City of Boston, water rates	.	.	35 00	
			<hr/>	
			\$1,906 21	

Excess and deficiency, balance to credit				
of account	.	.	562 79	
			<hr/>	
				\$2,469 00

REAL-ESTATE LIENS.

CREDIT.

Cash, received of sundry persons for tax titles				
released	.	.	.	\$475 44
Balance to debit in account 1888	.	.	.	321 67
			<hr/>	
				\$797 11

DEBIT.

Balance from 1886	.	.	.	\$728 10
Taxes, titles deeded to the city for non-				
payment of taxes	.	.	.	26 56
Interest, for non-payment of interest	.			3 20
Miscellaneous, for non-payment of cost	.			39 25
			<hr/>	
				\$797 11

RENEWALS OF FUNDED DEBT.

CREDIT.

Appropriations, amount authorized by loans	.	.	\$71,000 00
--	---	---	-------------

DEBIT.

Property and debt balance, amount of funded debt				
paid in 1887	.	.	.	\$71,000 00
			<hr/>	

SINKING FUND CONTRIBUTIONS.

CREDIT.

Appropriations, amount assessed	.	.	\$40,725 00
---------------------------------	---	---	-------------

DEBIT.

Cash, paid commissioners of sinking funds	.	.	\$40,725 00
			<hr/>

STATE AID.

CREDIT.

State of Massachusetts, amount paid in 1887, charged to State	\$3,613 00
--	------------

DEBIT.

Cash, paid monthly pay-rolls for aid	<u>\$3,613 00</u>
--	-------------------

STATE OF MASSACHUSETTS.

CREDIT.

Taxes, amount assessed	\$30,127 50
----------------------------------	-------------

DEBIT.

Cash, paid State treasurer State tax	<u>\$30,127 50</u>
--	--------------------

STATE OF MASSACHUSETTS.—STATE AID.

CREDIT.

Cash, received of State treasurer	\$3,703 00
Balance, Dec. 31, 1887, due from State, Dec. 1, 1888, to debit in account 1888	<u>3,470 00</u>
	\$7,173 00

DEBIT.

Balance from 1886	\$3,560 00
State aid, amount paid in 1887 as per account	<u>3,613 00</u>
	<u>\$7,173 00</u>

STATE OF MASSACHUSETTS.—INDIGENT SOLDIERS
AND SAILORS.

CREDIT.

Cash received of State treasurer	\$463 00
Balance, Dec. 31, 1887, due from State, Dec. 31, 1888, to debit in account 1888	<u>415 00</u>
<i>Amount carried forward</i>	\$878 00

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 87

Amount brought forward \$878 00

DEBIT.

Balance from 1886	\$451 00	
Indigent soldiers and sailors, one-half of amount paid in 1887, as per ac- count	427 00	
	<hr/>	\$878 00
		<hr/>

SUNDRY PERSONS.

CREDIT.

Balance from 1886		\$1,231 44
Interest coupons, due and unpaid . . .	\$150 00	
Water loan interest, coupons due and un- paid	45 00	
	<hr/>	195 00
		<hr/>
		\$1,426 44

DEBIT.

Cash, paid sundry persons, amounts to their credit	\$1,196 34	
Balance to credit in account 1888 . . .	230 10	
	<hr/>	\$1,426 44
		<hr/>

SALARIES.

CREDIT.

Appropriations, amount assessed	\$23,060 00
Excess and deficiency, balance to debit of account,	66 41
	<hr/>
	\$23,126 41

DEBIT.

Cash, paid Mark F. Burns, mayor . . .	\$1,000 00	
Charles E. Gilman, city clerk . . .	2,100 00	
John F. Cole, city treasurer and col- lector of taxes	3,200 00	
George A. Kimball, city engineer . . .	666 66	
Horace L. Eaton, " " . . .	1,333 34	
Samuel C. Darling, city solicitor . . .	1,100 00	
Thomas M. Durell, city physician . . .	950 00	
	<hr/>	
<i>Amounts carried forward</i>	\$10,350 00	\$23,126 41

<i>Amounts brought forward</i>	\$10,350 00	\$23,126 41
Douglas Frazar, city auditor	450 00	
“ “ clerk of common council	200 00	
George I. Vincent, clerk of assessors and committees	1,800 00	
William P. Mitchell, assistant clerk of assessors and committees	1,200 00	
Jairus Mann, city messenger	1,200 00	
Thomas R. Roulstone, superintendent buildings and street lights	1,500 00	
Aaron Sargent, treasurer of commissioners of sinking funds	200 00	
Elijah Walker, inspector of buildings	20 83	
James R. Hopkins, inspector of buildings	229 17	
Thomas Cunningham, inspector of milk	300 00	
Stillman H. Libby, assessor	500 00	
George W. Hadley, “	500 00	
Benjamin T. Thompson, assessor	500 00	
George W. Bartlett, assistant assessor	250 00	
William A. Flaherty, assistant assessor	250 00	
Hiram D. Smith, assistant assessor,	250 00	
Samuel T. Richards, assistant assessor	250 00	
Edward G. Wiswell, assessors' clerk	25 00	
A. E. Mann, assessors' clerk	16 50	
David R. Harvey, assessors' clerk	8 25	
William H. Whitcomb, janitor of City Hall and Public Library	660 00	
C. G. Rowell, registrar of voters	150 00	
Charles E. Gilman, registrar of voters	150 00	
S. G. A. Twycross, registrar of voters	150 00	
<i>Amounts carried forward</i>	\$21,109 75	\$23,126 41

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 89

<i>Amounts brought forward</i>	\$21,109 75	\$23,126 41
Otis H. Carrier, registrar of voters	150 00	
Engineer's assistants	1,866 66	
	<hr/>	<hr/>
		\$23,126 41

STREET LIGHTS.

CREDIT.

Appropriations, amount assessed		\$13,000 00
Cash, received of Cambridge Gas Light Co., repairs on post	\$41 69	
M. P. Canfield <i>et al.</i> , lamp-post	20 00	
E. G. Glines, lamp-post	20 00	
D. L. McGregor, lamp-post	20 00	
Edwin K. Blaikie, "	20 00	
A. J. Taylor <i>et al.</i> , "	20 00	
F. H. Burns, lamp-post	20 00	
C. O. & S. H. Abbott, lamp-post	20 00	
Charles G. Burbank, lamp-post	20 00	
H. G. Burrage <i>et al.</i> , "	60 00	
H. D. Osgood <i>et al.</i> , "	20 00	
S. B. Lock & Co., old iron	7 80	
	<hr/>	<hr/>
		289 49
		<hr/>
		\$13,289 49

DEBIT.

Cash, paid Cambridge Gas Light Co., gas	\$2,778 94	
Charlestown Gas Co., gas	2,143 22	
Somerville Electric Light Co., lighting	2,439 37	
James Tevlin, lighting lamps	285 95	
W. H. Archibald, lighting lamps	476 95	
Patrick O'Connell, lighting lamps (and labor)	752 30	
Thomas Casey, lighting lamps	461 45	
Patrick Moore, " "	404 76	
William Berry & Co., lamp-posts, etc.	184 35	
	<hr/>	<hr/>
<i>Amounts carried forward</i>	\$9,927 29	\$13,289 49

<i>Amounts brought forward</i>	.	.	\$9,927 29	\$13,289 49
P. J. Dinn, extensions for electric lights	.	.	244 18	
Samuel Walker & Co., oil	.	.	138 97	
H. W. Raymond, glass, etc.	.	.	127 08	
J. A. Durell, repairing lanterns	.	.	50 95	
Howe & Flint, hardware	.	.	5 55	
Whitney & Snow, hardware	.	.	1 30	
W. L. Snow, tags	.	.	35	
A. Fisher, glazing	.	.	4 00	
J. H. Hollis, glazing	.	.	1 00	
Everett E. Onley, repairing lamps	.	.	7 50	
Seward Dodge, repairing ladder	.	.	1 00	
W. H. Poole, repairing fountain	.	.	2 38	
Nathaniel Tufts, burners	.	.	5 85	
Walworth Manufacturing Co., fittings,	.	.	2 38	
Leonard Arnold, boxes	.	.	7 50	
Martin Thayer, alcohol	.	.	31 75	
C. Sullivan, repairing post	.	.	1 00	
Thomas Hollis, glycerine	.	.	40	
Aaron R. Gay & Co., stationery	.	.	10 50	
R. T. Blackwell, carriage hire	.	.	6 00	
W. J. Davis, expressing	.	.	2 50	
E. R. Perham, "	.	.	2 00	
A. M. Prescott, "	.	.	75	
			<hr/>	
			\$10,582 18	
Schoolhouse incidentals transferred	.	.	1,500 00	
Excess and deficiency, balance to credit of account	.	.	1,207 31	
			<hr/>	
				\$13,289 49

SIDEWALKS.

CREDIT.

Appropriations, amount assessed	.	.	.	\$3,500 00
Sidwalk assessments, assessments levied	.	.	.	3,109 42
				<hr/>
<i>Amount carried forward</i>	.	.	.	\$6,609 42

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 91

Amount brought forward \$6,609 42

DEBIT.

Cash, paid laborers	\$1,323 24	
John J. Downey, edgestones . .	3,415 59	
John Thresher, bricks	477 00	
Sanborn & Hatch, "	243 75	
J. O. Hayden & Co., advertising .	80 40	
Highways account, edgestones .	619 31	
Sewers account, "	40 16	
Sidewalk assessments, abatements .	4 52	
	<hr/>	
	\$6,203 97	
Excess and deficiency, balance to credit of account	405 45	
	<hr/>	
		\$6,609 42
		<hr/>

SIDEWALK ASSESSMENTS.

CREDIT.

Cash received of sundry persons, assessments .	\$3,985 53	
Sidewalks, abatements	4 52	
Balance to debit in account 1888	2,566 34	
	<hr/>	
		\$6,556 39

DEBIT.

Balance from 1886	\$3,446 97	
Sidewalks, assessments levied	3,109 42	
	<hr/>	
		\$6,556 39
		<hr/>

SEWERS.

CREDIT.

Appropriations, amount assessed	\$8,000 00	
Cash, received of Boston Consolidated Railroad, labor on switch	\$26 02	
J. W. Gerry, fee for entering Elm Street sewer	53 60	
	<hr/>	
<i>Amounts carried forward</i>	\$79 62	\$8,000 00

<i>Amounts brought forward</i> . . .	\$79 62	\$8,000 00
Massachusetts General Hospital, annual fee for permission to enter Fitchburg Street sewer . . .	50 00	
Maurice Buttimer, puddling . . .	13 50	
Health Department, catch-basins, etc.	83 37	
Sidewalk account, edgestones . . .	40 16	
Highway account, drain pipe . . .	22 44	
Water maintenance account, repairing catch-basin	8 10	
Dennis Ryan, puddling	7 40	
	<hr/>	304 59
Sewer assessments, assessments levied		6,281 32
Excess and deficiency, balance to debit of account		344 48
		<hr/>
		\$14,930 39

DEBIT.

Cash, paid laborers	\$4,116 94	
George D. Goodrich & Co., drain pipe	2,465 07	
Fiske, Colman, & Co., drain pipe . . .	190 81	
Boston Woven Hose Co., hose . . .	200 00	
Whitney & Snow, hardware	13 66	
H. W. Raymond, "	9 95	
Howe & Flint, "	6 53	
Sanborn & Hatch, bricks	253 20	
Bay State Brick Co., "	33 60	
Maurice Buttimer, "	9 50	
Horatio Wellington & Co., cement . . .	137 35	
Seward Dodge, blacksmith work . . .	13 84	
F. W. Gilbert, rubber boots	25 00	
Walworth O. Barbour & Co., traps, . . .	45 00	
Osgood & Hart, covers	52 00	
A. Parker, catch-basin stones	286 00	
I. H. Brown & Co., poles	1 25	
E. D. Sawyer & Co., lumber	2 77	
Bay State Belting Co., packing	4 20	
	<hr/>	
<i>Amounts carried forward</i>	\$7,866 67	\$14,930 39

<i>Amounts brought forward</i>	.	.	\$7,866 67	\$14,930 39
Dennis Collins, sand	.	.	75	
Edward Fitzgerald, sand	.	.	1 00	
Sewall & Day Cordage Co., rope,				
etc.	.	.	1 92	
John Fisher, pails	.	.	7 00	
Charles Bartley, salt, etc.	.	.	50	
S. J. Wood, filing saws	.	.	25	
R. T. Blackwell, carriage hire	.	.	4 00	
J. O. Hayden & Co., advertising	.	.	89 31	
Thomas Groom & Co., stationery	.	.	18 00	
Aaron R. Gay,		"	11 15	
John and Catherine McCarthy, land				
damages	.	.	40 00	
R. A. Vinal <i>et al</i> , land damages	.	.	34 04	
John Herbert, legal costs	.	.	28 47	
City of Boston, water	.	.	40 00	
City of Cambridge, five-ninths of				
expense of cleaning outlet, and				
repairing Bridge Street sewer	.	.	1,175 87	
Maurice Buttimer, constructing				
sewer in Highland Avenue	.	.	459 05	
Maurice Buttimer, constructing				
sewer in Winter and Elm Streets,	.	.	176 05	
Maurice Buttimer, constructing				
sewer in Willow Avenue	.	.	817 67	
Maurice Buttimer, constructing				
sewer in Lowell and Medford				
Streets	.	.	200 11	
Maurice Buttimer, constructing				
sewer in Hinckley Street and				
Broadway	.	.	138 08	
Christopher Burke, constructing				
sewer in Derby Street	.	.	1,305 00	
Dennis Ryan, constructing sewer in				
Summer Street	.	.	74 20	
Dennis Ryan, constructing sewer in				
Bigelow Street	.	.	104 50	
<i>Amounts carried forward</i>	.	.	\$12,593 59	\$14,930 39

<i>Amounts brought forward</i>	\$12,593 59	\$14,930 39
Richard Falvey, constructing sewer in Cherry Street	482 98	
Richard Falvey, constructing sewer in Webster Avenue	79 95	
Richard Falvey, constructing sewer in Temple Street	292 90	
Charles A. Mongan, constructing sewer in Buckingham Street	120 50	
Charles A. Mongan, constructing sewer in School Street	43 50	
Charles A. Mongan, constructing sewer in Trull Street	652 80	
Charles A. Mongan, constructing sewer in Church Street	100 72	
Charles A. Mongan, constructing sewer in Linden Avenue	117 00	
Charles A. Mongan, constructing sewer in Grand View and Vinal Avenues	114 04	
Charles A. Mongan, constructing sewer in Munroe Street	157 95	
Charles A. Mongan, digging trench, etc.	65 00	
Water maintenance account, labor and pipe	31 45	
Sewer assessments account, assess- ments abated	78 01	
	<hr/>	<hr/>
		\$14,930 39

SEWER ASSESSMENTS.

CREDIT.

Cash, received of sundry persons, assessments	\$8,232 30
Sewers, assessments abated	78 01
Balance to debit in account 1888	4,438 87
	<hr/>
	\$12,749 18

DEBIT.

Balance from 1886	\$6,467 86
Sewers, assessments levied	6,281 32
	<hr/>
	\$12,749 18

SUPPORT OF POOR.

CREDIT.

Appropriations, amount assessed		\$14,000 00
Cash, received for support of paupers : —		
Of city of Boston	\$275 37	
" Cambridge	27 65	
" Fitchburg	42 21	
" Lowell	38 65	
" Newburyport	25 70	
Of town of Arlington	32 55	
" Hopkinton	19 40	
" Medford	64 55	
" Revere	9 90	
" Melrose	3 70	
" Milford	4 70	
" Manchester	49 50	
" Natick	9 90	
" Woburn	81 82	
State of Massachusetts, support of		
State paupers	411 22	
Burial of State paupers	30 00	
Westboro Insane Hospital, board of		
paupers refunded	42 71	
S. W. Dow, aid to paupers	109 77	
C. C. Folsom, guardian, aid to pau-		
pers	52 36	
O. S. Knapp, guardian, aid to pau-		
pers	172 96	
Martha Osgood, aid to paupers	42 71	
William Ross, " "	5 00	
F. H. Mixon, furniture	5 00	
	<hr/>	1,557 33

\$15,557 33

DEBIT.

Cash, paid for support of paupers : viz., —

Asylum for Chronic Insane	\$142 64
Commonwealth of Massachusetts	619 35

<i>Amounts carried forward</i>	\$761 99	\$15,557 33
--	----------	-------------

<i>Amounts brought forward</i>	.	.	\$761 99	\$15,557 33
Carney Hospital	.	.	59 42	
Danvers Lunatic Asylum	.	.	1,021 63	
State Hospital for Insane	.	.	402 07	
Taunton Lunatic Hospital	.	.	190 36	
Worcester Lunatic Hospital	.	.	1,131 41	
Westboro Insane Hospital	.	.	405 97	
J. M. Fiske. House of Correction	.	.	21 00	
City of Boston	.	.	659 88	
“ Cambridge	.	.	66 51	
“ Chelsea	.	.	80 75	
“ Lawrence	.	.	88 00	
“ Lowell	.	.	85 00	
“ Newburyport	.	.	109 00	
“ Newton	.	.	16 25	
“ Taunton	.	.	47 71	
Town of Andover	.	.	24 00	
“ Holliston	.	.	12 00	
“ Peabody	.	.	468 25	
Mary Burke, rent	.	.	72 00	
Mary A. Blackwell, rent	.	.	48 00	
Ira H. Bickford, “	.	.	60 00	
Samuel K. Burbeck, “	.	.	10 00	
E. F. Clifford, “	.	.	20 00	
Bridget Carroll, “	.	.	60 00	
Timothy F. Crimmings, rent	.	.	48 00	
Ellen Driscoll, “	.	.	48 00	
Edward Foster, “	.	.	48 00	
Martha Fitzgerald, “	.	.	66 00	
Thomas Flemming, “	.	.	48 00	
Sarah Gill, “	.	.	72 00	
Ann Grady, “	.	.	66 00	
Ann Gallagher, “	.	.	60 00	
S. H. Libby, “	.	.	18 00	
J. I. Loudon, “	.	.	60 00	
Owen McLaughlin, “	.	.	48 00	
John H. McFarlane, “	.	.	84 00	
Jeremiah McCarthy, “	.	.	60 00	
<i>Amounts carried forward</i>	.	.	\$6,647 20	\$15,557 33

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 97

<i>Amounts brought forward</i>	.	.	\$6,647 20	\$15,557 33
John McNamara, rent	.	.	16 00	
John McGonagle, "	.	.	5 00	
Patrick McCrossen, "	.	.	12 00	
M. J. McCarron, "	.	.	48 00	
Ann Nolan, "	.	.	28 00	
Charles H. O'Neil, "	.	.	48 00	
Mary O'Hare, "	.	.	40 00	
M. B. Pitman, "	.	.	36 00	
Emily E. Rice, "	.	.	60 00	
Margaret Skehan, "	.	.	40 00	
George H. Simmonds, rent	.	.	30 00	
Olive Thomas, "	.	.	24 00	
Chester Williams, "	.	.	24 00	
Maurice Terry, "	.	.	60 00	
Mary Ash, board	.	.	120 00	
Wells H. Boynton, board	.	.	45 35	
M. A. Blackwell, "	.	.	178 15	
Margaret Braslin, "	.	.	38 57	
Bedena Burrisean, "	.	.	4 25	
John Earle, "	.	.	96 00	
Sarah J. Hill, "	.	.	154 00	
William Holbrook, "	.	.	5 00	
Charles Hutchinson, "	.	.	52 29	
Flora Gray, "	.	.	26 29	
Ann Kelley, "	.	.	104 30	
Hannah M. Mayo, "	.	.	169 45	
Frederick J. Miller, "	.	.	60 00	
Ellen Neagle, "	.	.	178 15	
Ann F. Neagle, "	.	.	70 00	
Mary Roach, "	.	.	12 00	
Data G. Sawin, "	.	.	37 15	
Eugene Shea, "	.	.	130 33	
Martin Toye, "	.	.	69 44	
George K White, "	.	.	10 21	
Ellen M. O'Donnell, "	.	.	104 30	
Charles S. Butters, groceries and provisions,	.	.	30 00	
<i>Amounts carried forward</i>	.	.	\$8,813 43	\$15,557 33

<i>Amounts brought forward</i>	. . \$8,813 43	\$15,557 33
Charles Bartley, groceries and provisions	. . . . . 66 00	
A. F. Carpenter, groceries and provisions	. . . . . 171 60	
John H. Casey, groceries and provisions	. . . . . 14 00	
J. J. Guild, groceries and provisions,	14 00	
George H. Hills & Co., groceries and provisions	. . . . . 489 87	
Daniel E. Hennessey, groceries and provisions	. . . . . 106 00	
James Harris, groceries and provisions	. . . . . 18 00	
A. S. Munroe, groceries and provisions	. . . . . 69 00	
C. H. North & Co., groceries and provisions	. . . . . 184 00	
P. T. O'Brien, groceries and provisions	. . . . . 39 00	
William S. Ward, groceries and provisions	. . . . . 476 95	
Sturtevant Brothers, groceries and provisions	. . . . . 35 50	
Albert Fiske, crackers	. . . . . 29 80	
F. H. Turner & Co., groceries,	. . . . . 5 81	
Henry Gray, milk	. . . . . 11 73	
Horatio Wellington & Co., fuel	. . . . . 665 64	
Philip Eberle, boots and shoes	. . . . . 102 50	
W. J. Emerson, " " "	. . . . . 10 25	
F. W. Gilbert, " " "	. . . . . 32 50	
J. C. Gillis, " " "	. . . . . 9 75	
J. H. Mongan, " " "	. . . . . 31 00	
J. H. Brooks, dry goods	. . . . . 23 75	
J. W. Brine, " "	. . . . . 17 50	
William E. Jones, carpenter work	. . . . . 155 20	
S. Richards, raising house	. . . . . 20 00	
J. O. Hayden & Co., printing	. . . . . 20 75	
<i>Amounts carried forward</i>	. \$11,633 53	\$15,557 33

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 99

<i>Amounts brought forward</i>	\$11,633 53	\$15,557 33
Aaron R. Gay & Co., stationery	7 43	
Thomas Groom & Co., “	4 00	
S. H. Libby, premium of insurance	3 00	
Charles S. Lincoln, directories	3 00	
E. J. Burt, directory	2 00	
L. H. Brown, carriage hire	11 50	
R. T. Blackwell, carriage hire	5 50	
C. C. Folsom, salary as agent	1,200 00	
“ “ “ “ secretary	166 64	
“ “ disbursements	194 97	
George T. Lincoln, salary as secretary	83 32	
William D. Hayden, services	15 00	
John F. Couch, professional services	20 00	
Thomas Devins, services as undertaker	10 00	
William A. Flaherty, services as undertaker	25 00	
E. H. Marsh, services as undertaker,	20 00	
P. H. Rafferty & Co., services as undertaker	25 00	
H. D. Runey, use of wagon	1 00	
	<hr/>	
	\$13,430 89	
Excess and deficiency, balance to credit of account	2,126 44	
	<hr/>	
		<u>\$15,557 33</u>

SCHOOL CONTINGENT.

CREDIT.

Appropriations, amount assessed	\$14,000 00
Cash, received for tuition of non-resident pupils: —	
Fannie P. Bartlett	\$8 00
B. H. Camp	8 00
William S. Dane	12 50
Francis Hollis	76 00
William S. McKenzie	30 00
	<hr/>
<i>Amounts carried forward</i>	\$134 50
	<hr/>
	\$14,000 00

<i>Amounts brought forward</i>	.	.	\$134 50	\$14,000 00
John Nichols	.	.	16 00	
Dennis O'Connell	.	.	25 00	
Mary A. Warren	.	.	12 50	
J. H. Davis, injury to books	.	.	9 58	
			<hr/>	197 58
Excess and deficiency, balance to debit				
of account	.	.		1,860 81
				<hr/>
				\$16,058 39

DEBIT.

Cash, paid Joshua H. Davis, salary as				
superintendent of schools	.	.	\$2,000 00	
Disbursements	.	.	25 97	
Janitors	.	.	5,083 74	
L. H. Snow, truant officer	.	.	633 34	
“ “ travelling expenses	.	.	18 25	
Jairus Mann, truant officer	.	.	50 00	
E. H. Butler & Co., books	.	.	71 34	
Harrison Hume, books	.	.	795 17	
Harper & Brothers, books	.	.	582 74	
Leach, Shewall, & Sanborn, books	.	.	459 51	
Ginn & Co., books	.	.	446 66	
Cowperthwait & Co., books	.	.	330 83	
William Ware & Co., “	.	.	243 91	
Boston School Supply Co., books,				
etc.	.	.	121 52	
F. M. Ambrose, books	.	.	160 80	
Thompson, Brown & Co., books	.	.	119 17	
Carl Schoenhof, “	.	.	37 43	
D. Appleton & Co., “	.	.	28 00	
George S. Perry, “	.	.	54 31	
Interstate Publishing Co., “	.	.	20 00	
Houghton, Mifflin, & Co., “	.	.	37 50	
Warren P. Adams, “	.	.	18 75	
Joseph W. Ripley, “	.	.	4 80	
A. C. Stockin, “	.	.	1 36	
E. S. Richie & Sons, supplies,	.	.	38 33	
			<hr/>	
<i>Amounts carried forward</i>	.	.	\$11,383 43	\$16,058 39

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 101

<i>Amounts brought forward</i>	.	\$11,383 43	\$16,058 39
J. L. Hammett, supplies	.	80 39	
Adams & Ingraham, supplies	.	1,526 52	
Frost & Adams,	"	17 09	
Stanley Rule and Level Co., rulers	.	38 20	
A. G. Whitcomb, ink-wells	.	20 70	
N. S. Dearborn, diplomas	.	89 00	
C. A. French, inscribing diplomas	.	33 75	
C. H. Whitney, stationery	.	79 25	
Paul A. Garcey, statuary	.	9 50	
Thomas Brown & Co., stationery	.	27 34	
Aaron R. Gay & Co.,	"	4 50	
M. R. Warren,	"	2 60	
George L. Baxter, disbursements	.	3 86	
John S. Hayes,	"	13 35	
H. L. Morse,	"	6 75	
George E. Nichols,	"	13 75	
H. D. Newton,	"	4 51	
G. A. Southworth,	"	5 69	
J. O. Hayden & Co., printing, etc.	.	309 40	
McDonnell Brothers, advertising	.	6 50	
Spaulding & Tewksbury, paper	.	4 00	
D. C. Heath & Co., maps	.	26 77	
Silver, Rogers, & Co.,	"	20 00	
J. M. Corse, rent of post-office box	.	2 00	
C. S. Toby, rent of post-office box	.	1 00	
Derby & Kilmer Desk Co., desk	.	64 00	
George F. King & Merrill, station- ery, etc.	.	26 80	
E. S. Daniels, tuning piano	.	9 50	
P. Lynam & Co., mats	.	154 74	
Charles Holmes & Son, hardware	.	19 55	
H. W. Raymond,	"	4 25	
N. L. Pennrock, oil	.	1 47	
W. L. Snow,	"	2 80	
J. A. Durell,	"	55	
Oscar F. Howe, brooms	.	12 75	
D. G. Benner,	"	56	
<i>Amounts carried forward</i>	.	\$14,026 82	\$16,058 39

<i>Amounts brought forward</i>	\$14,026 82	\$16,058 39
Williams & Co., drinking cups	23 25	
T. G. Butler, mops	8 50	
Bishop & Brothers, shavings	2 00	
Boston Woven Hose Co., hose	38	
India Alkali Works, savogran	28 73	
Rand & Byam, soap	12 30	
Margaret Hartness, soap	3 57	
George Frost & Co., files	4 00	
Melvin & Chandler, carpenter work	1 50	
Boston Cab Co., carriage hire	6 00	
H. M. Weld & Co., " "	6 00	
Thomas Young, flowers	4 95	
First Methodist Episcopal Church, use of church	100 00	
D. H. Rinn, rent, etc.	81 25	
D. Cummings & Co., rent, etc.	82 50	
James M. Coburn, " "	80 95	
R. T. Thompson, " "	77 00	
Christopher Price, services as janitor,	43 54	
William Brown, " " "	4 16	
W. H. Denton, disbursements	1 88	
Barker & Tibbetts Express, express- ing	17 00	
Woodbridge & Co., expressing	74 80	
B. H. Weeks & Co., " "	9 20	
Stilphen & Co., " "	7 10	
E. R. Perham, " "	2 95	
Thorpe's Express, " "	1 25	
Gilman & Co., " "	1 15	
G. W. Munroe, jun., " "	1 05	
Heerter's Express, expressing	40	
Murphy, Leavens, & Co., dusters	150 48	
City of Cambridge, water	24 00	
" Boston, " "	606 35	
Cambridge Gas Light Co., gas	94 66	
Charlestown Gas Co., " "	40 27	
City of Lowell, support of truants	428 45	
		<u>\$16,058 39</u>

SCHOOL FUEL.

CREDIT.

Appropriations, amount assessed	\$6,000 00
Excess and deficiency, balance to debit of account .	475 17
	<hr/>
	\$6,475 17

DEBIT.

Cash, paid B. F. Wild & Co., fuel	\$5,475 17
Schoolhouse incidentals, transferred, 1,000 00	
	<hr/>
	\$6,475 17

SCHOOLHOUSE INCIDENTALS.

CREDIT.

Water loan interest, transferred	\$10,500 00
Street lights, "	1,500 00
School fuel, "	1,000 00
	<hr/>
	\$13,000 00
Cash, received of Ten Associates, use of school room	\$1 00
R. E. Nickerson, use of ward room,	1 00
	<hr/>
	2 00
Excess and deficiency, balance to debit of account	633 93
	<hr/>
	\$13,635 93

DEBIT.

Cash, paid Melvin & Chandler, carpenter work	\$49 02
S. & C. H. Williams, carpenter work	158 06
Fred C. Fuller, carpenter work	425 43
Page & Littlefield, " "	450 00
H. S. Brackett, " "	343 57
George W. Trefren, jun., carpenter work	220 48
G. W. Bragdon, carpenter work	59 35
Leonard Arnold, " "	52 60
Gordon & Packard, " "	46 87
	<hr/>
Amounts carried forward	\$1,805 38
	<hr/>
	\$13,635 93

<i>Amounts brought forward</i>	.	\$1,805 38	\$13,635 93
F. A. Chandler, carpenter work	.	126 29	
Harry Holt, " "	.	41 75	
A. S. Arnold, " "	.	18 78	
S. J. Wright, " "	.	12 89	
R. A. Stevens, " "	.	6 41	
John H. Stevens, " "	.	9 12	
John D. Hills, " "	.	2 62	
William B. Durland, " "	.	1 00	
John R. Thompson, " "	.	7 49	
A. C. Winning, mason work	.	3,389 41	
J. M. Burckes, " "	.	169 75	
D. P. Bucknam, " "	.	95 87	
C. F. Palmer, " "	.	64 50	
Clarence G. Reed, plastering	.	67 71	
C. E. Arnold & Co., " "	.	107 25	
A. Fisher, painting and glazing	.	87 60	
J. Q. Twombly, painting and glazing	.	346 05	
F. J. Almeden, jun., painting and glazing	.	83 75	
D. W. McDermott, painting and glazing	.	47 29	
W. H. Denton, setting glass	.	7 50	
Joseph H. Hollis, " "	.	3 00	
Howe & Flint, stove and furnace work, etc.	.	676 81	
J. A. Durell, stove and furnace work, etc.	.	152 68	
W. L. Snow, stove and furnace work, etc.	.	309 79	
J. A. Merrifield, stove and furnace work, etc.	.	129 83	
Charles Holmes & Son, stove and furnace work, etc.	.	85 33	
C. A. Legallee, plumbing, etc.	.	1,299 23	
James F. Davlin, " "	.	189 82	
W. S. Hixon & Co., plumbing, etc.,	.	81 85	
<i>Amounts carried forward</i>	.	\$9,426 75	\$13,635 93

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 105

<i>Amounts brought forward</i>	. . \$9,426 75	\$13,635 93
Folger & Dupont, plumbing, etc.	. . 14 50	
W. H. Poole, plumbing, etc.	. . 6 25	
H. W. Covell & Co., plumbing, etc.,	47 48	
H. W. Raymond, hardware	. . 33 79	
Whitney & Snow, “	. . 21 26	
M. C. Warren & Co., “	. . 17 51	
William Hall & Co., “	. . 5 00	
G. T. Burnham & Co., lumber	. 113 24	
J. F. Ayer, lumber	. . 83 01	
I. H. Brown, “	. . 13 09	
W. H. Wood & Co., lumber	. . 33 86	
A. G. Whitcomb, school furniture	. 232 69	
Philander Derby & Co., school furniture	. . . . 56 51	
J. E. Bell, blackboards	. . . 168 53	
J. L. Hammett, “	. . . 8 20	
A. A. Sanborn, steamfitting	. . 319 25	
Albert B. Franklin, “	. . 117 05	
L. C. Seavey, slating	. . . 363 43	
Edward Earley, “	. . . 15 56	
Walter Bates & Son, concreting	. 252 00	
Timothy F. Crimmings, excavating cellar.	. . . . 194 80	
Samuel D. Kelley, plans	. . 73 00	
George McKenna, gravel	. . 4 60	
R. M. Johnson, removing night soil,	84 00	
Everett E. Onley, blacksmithing	. 6 00	
Daniel Crocker, repairing clocks	. 29 00	
S. B. Manning, “ “	. 15 00	
S. J. Wood, locks and keys	. . 14 85	
G. M. D. Fernald, repairing gong	. 2 50	
Cushman & Brigham, flannel	. . 2 10	
N. C. Barker, carpenter work	. 1 68	
George D. Wildes, rent of Clarendon Hall	. . . . 160 25	
H. M. Weld & Co, hack hire	. . 5 00	
S. Richards, teaming	. . 7 00	
<i>Amounts carried forward</i>	. \$11,948 74	\$13,635 93

<i>Amounts brought forward</i>	.	\$11,948 74	\$13,635 93
P. J. Martin, whitewashing	.	18 50	
Patrick O'Connell, labor	.	19 75	
R. E. Archibald, "	.	17 50	
D. H. Rinn, "	.	9 00	
James Deacon, "	.	5 00	
Joseph Gott, "	.	5 66	
Joseph Young, "	.	3 00	
O. F. Page, "	.	3 00	
John Fay, "	.	2 00	
Dexter F. Bennett, premium of insurance	.	558 75	
Isaac B. Kendall, premium of insurance	.	342 00	
W. C. Crane, premium of insurance	.	237 50	
Crane & Hanscome, premium of insurance	.	222 50	
W. B. Hastings & Co., premium of insurance	.	123 75	
Charles S. Robertson, premium of insurance	.	45 00	
H. W. P. Colson, premium of insurance	.	9 00	
Arthur T. Hatch, premium of insurance	.	9 00	
E. R. Perham, expressing	.	9 10	
Gilman & Co., "	.	3 30	
N. L. Pennock, labor	.	75	
C. Sullivan, "	.	1 25	
Sidewalk assessments account, sidewalk on Tufts Street	.	41 88	
			<u>\$13,635 93</u>

SCHOOL TEACHERS' SALARIES.

CREDIT.

Appropriations, amount assessed	\$82,000 00
Cash, received of Jennie C. Eaton, salary account	15 00
Excess and deficiency, balance to debit of account	2,014 61
	<hr/>
	\$84,029 61

DEBIT.

Cash, paid salaries	<hr/> <hr/> \$84,029 61
-------------------------------	-------------------------

SCHOOLHOUSE IN WARD TWO.

CREDIT.

Appropriations, amount assessed	\$10,000 00
---	-------------

DEBIT.

Excess and deficiency, transferred	\$5,822 45
Balance to credit in account 1888	4,177 55
	<hr/>
	\$10,000 00

SCHOOLHOUSE IN WARD THREE.

CREDIT.

Balance from 1886	\$668 26
Appropriations, amount assessed	7,000 00
	<hr/>
	\$7,668 26

DEBIT.

Cash, paid J. H. Coon & Co. on account of contract and final settlement	\$4,900 00
Tablets	115 00
Dugan & Rutherford, lettering tablets	25 00
George F. Loring, services as architect	76 00
A. A. Sanborn, heating apparatus	1,055 00
B. F. Wild & Co., fuel	53 39
	<hr/>
<i>Amounts carried forward</i>	\$6,224 39
	<hr/> <hr/> \$7,668 26

<i>Amounts brought forward</i>	. . \$6,224 39	\$7,668 26
Walter Bates & Son, concreting	. . 72 00	
A. G. Whitcomb, furniture	. . 543 33	
Winchester Furniture Co., furniture,	8 00	
J. E. Bell, blackboards	. . 38 21	
Glendon & Co., changing doors	. . 11 50	
Howe & Flint, furnace work	. . 27 99	
John F. McAllister, plumbing	. . 25 02	
H. W. Raymond, hardware	. . 5 09	
Whitney & Snow, “	. . 14 00	
S. J. Wood, keys	. . 4 75	
Daniel W. McDermott, painting	. . 8 00	
J. H. Hollis, glazing	. . 2 50	
M. C. Warren & Co., gong pull	. . 11 14	
S. B. Manning, clocks	. . 24 00	
Oliver Whyte & Co., screens	. . 30 54	
John F. Ayer & Co., lumber	. . 18 81	
I. H. Brown & Co., “	. . 2 83	
Harry Holt, carpenter work	. . 2 50	
Frederick A. Chandler, carpenter work	. . 35 04	
G. W. Bragdon, carpenter work	. . 21 60	
Leonard Arnold, “ “	. . 23 40	
H. L. Brackett, “ “	. . 2 96	
E. R. Perham, expressing	. . 1 05	
Patrick O’Connell, labor	. . 53 00	
James Deacon, “	. . 24 00	
John Brine, “	. . 20 00	
P. J. Martin, “	. . 15 50	
John Garrick, “	. . 2 00	
	<hr/> \$7,273 15	
Balance to credit of account 1888	. . 395 11	
	<hr/>	<u>\$7,668 26</u>

SCHOOLHOUSE IN WARD FOUR.

CREDIT.

Balance from 1886	. . . . .	\$816 68
Appropriations, amount assessed	. . . . .	7,000 00
<i>Amount carried forward</i>	. . . . .	<u>\$7,816 68</u>

Amount brought forward \$7,816 68

DEBIT.

Cash, paid J. H. Coon & Co., on account of contract and in final settlement	\$5,100 00	
Tablets	115 00	
Dugan & Rutherford, lettering tab- lets	25 00	
George F. Loring, services as archi- tect	76 00	
A. A. Sanborn, heating apparatus .	1,055 00	
Walter Bates & Son, concreting .	72 00	
B. F. Wild & Co., fuel	40 04	
Howe & Flint, furnace work . .	22 15	
Winchester Furniture Co., furniture	573 12	
A. G. Whitcomb, furniture . . .	14 00	
J. E. Bell, blackboards	36 81	
S. B. Manning, clocks	24 00	
Glendon & Co., changing doors .	11 50	
M. C. Warren, gong pull	11 14	
S. J. Wood, keys, etc.	8 75	
John F. Ayer & Co., lumber . . .	11 49	
I. H. Brown & Co., "	2 83	
Harry Holt, carpenter work . .	2 50	
Frederick A. Chandler, carpenter work	23 34	
L. Arnold, carpenter work . . .	26 70	
G. W. Bragdon, " "	18 00	
H. L. Brackett, " "	2 96	
Whitney & Snow, hardware . . .	16 13	
H. W. Raymond, "	5 09	
Oliver Whyte & Co., screens . .	30 54	
Daniel McDermott, painting . .	7 00	
Daniel F. McAllister, plumbing .	25 03	
Everett E. Onley, blacksmithing .	1 50	
John Turner & Co., edgestones .	19 83	
John P. Downey, "	9 75	
<i>Amounts carried forward</i> . . .	\$7,387 20	\$7,816 68

<i>Amounts brought forward</i>	.	.	\$7,387 20	\$7,816 68
George McKenna, gravel	.	.	45 90	
E. R. Perham, expressing	.	.	2 90	
Joseph Gott, labor	.	.	54 00	
James Deacon, labor	.	.	28 00	
John Brine, " "	.	.	22 00	
P. J. Martin, " "	.	.	22 00	
Patrick O'Connell, labor	.	.	4 20	
			<hr/>	
			\$7,566 20	
Balance to credit of account 1888	.	.	250 48	
			<hr/>	
				<u>\$7,816 68</u>

TAXES.

CREDIT.

Cash, received for taxes for 1882	.	.	\$22 90	
" " " 1883	.	.	17 34	
" " " 1884	.	.	122 10	
" " " 1885	.	.	33,479 86	
" " " 1886	.	.	58,171 81	
" " " 1887	.	.	318,750 28	
			<hr/>	
				\$410,564 29
Real-estate liens, titles to the city for non-payment of taxes of 1885	.	.	.	26 56
Overlay and abatement: —				
Abatement on taxes for 1882	.	.	\$6 00	
" " " 1883	.	.	6 00	
" " " 1884	.	.	29 62	
" " " 1885	.	.	430 06	
" " " 1886	.	.	296 55	
" " " 1887	.	.	4,138 10	
			<hr/>	
				4,906 33
Balance to debit in account 1888 —				
Being uncollected taxes for 1882	.	.	\$3,214 08	
" " " " 1883	.	.	3,948 76	
" " " " 1884	.	.	4,074 62	
" " " " 1885	.	.	5,310 36	
" " " " 1886	.	.	42,438 82	
" " " " 1887	.	.	101,420 76	
			<hr/>	
				160,407 40
<i>Amount carried forward</i>	.	.	.	<u>\$575,904 58</u>

Amount brought forward \$575,904 58

DEBIT.

Balance from 1886	\$151,595 44	
Appropriations, amount assessed for current expenses . . .	379,185 00	
State of Massachusetts, amount as- sessed for State tax . . .	30,127 50	
County of Middlesex, amount as- sessed for county tax . . .	14,089 10	
Overlay and abatement, amount added by the assessors . . .	907 54	
	<hr/>	\$575,904 58

TEMPORARY LOANS.

CREDIT.

Balance from 1886	\$150,000 00	
Cash, borrowed by authority of the City Council on city notes as follows: viz., —		
Commonwealth of Massachu- setts, on eight months, at $3\frac{3}{4}$ per cent	\$25,000 00	
Commonwealth of Massachu- setts, on seven months, at $3\frac{7}{8}$ per cent	75,000 00	
Commonwealth of Massachu- setts, on seven months, at $3\frac{7}{8}$ per cent	125,000 00	
Commonwealth of Massachu- setts, on four months, at $5\frac{1}{2}$ per cent	30,000 00	
F. S. Moseley & Co., on six months, at 6 per cent . . .	25,000 00	
F. S. Moseley & Co., on six months, at 6 per cent . . .	25,000 00	
F. S. Moseley & Co., on six months, at 6 per cent . . .	20,000 00	
	<hr/>	
<i>Amounts carried forward</i> . . .	\$325,000 00	\$150,000 00

<i>Amounts brought forward</i> .	\$325,000 00	\$150,000 00
F. S. Moseley & Co., on six months, discounted at $5\frac{1}{2}$ per cent	25,000 00	
Commonwealth of Massachusetts, on three months, at 5 per cent	50,000 00	
Blake Brothers & Co., on four months, at $5\frac{1}{4}$ per cent .	25,000 00	
	<hr/>	425,000 00
		<hr/>
		\$575,000 00

DEBIT.

Cash, paid as follows : viz., —

Commonwealth of Massachusetts, note dated Dec. 6, 1886	\$75,000 00	
Commonwealth of Massachusetts, note dated Dec. 13, 1886	75,000 00	
Commonwealth of Massachusetts, note dated April 6, 1887	75,000 00	
Commonwealth of Massachusetts, note dated April 13, 1887	125,000 00	
Commonwealth of Massachusetts, note dated March 14, 1887	25,000 00	
Commonwealth of Massachusetts, note dated Aug. 13, 1887	30,000 00	
	<hr/>	
	\$405,000 00	
Balance to credit in account 1888 .	170,000 00	
	<hr/>	
		\$575,000 00

WATER LOAN INTEREST.

CREDIT.

Cash, received of city of Boston return on water rates : —				
1886, 40 per cent on \$4.20	.	.	\$1	68
“ 50 “ “ 8,424.72	.	.	4,212	37
1887, 50 “ “ 76,873.04	.	.	38,436	52
				<hr/>
				\$42,650 57

DEBIT.

Cash, paid interest on water loan bonds : —				
\$14,500 one year at 5½ per cent	.	.	\$797	50
246,500 “ “ “ 5 “ “	.	.	12,325	00
74,000 “ “ “ 4 “ “	.	.	2,960	00
				<hr/>
				\$16,082 50
City of Boston, proportion of amount of water rates refunded	.	.	42	79
				<hr/>
				\$16,125 29
Schoolhouse incidentals, transferred, 10,500	.	.	00	
Water maintenance, transferred	.	.	15,800	00
				<hr/>
				\$42,425 29
Excess and deficiency, balance to.	.	.		
credit of account	.	.	225	28
				<hr/>
				\$42,650 57
				<hr/>

WATER SERVICES.

CREDIT.

Cash, received of Nelson & Thompson,				
service pipe, etc.	.	.	\$6	00
Asa Durgin, service pipe, etc.	.	.	6	06
Mason A. Snell, “ “ “	.	.	12	62
Luther W. Morrill, service pipe, etc.	.	.	16	60
B. F. Quimby, “ “ “	.	.	68	50
Thomas E. Chase, “ “ “	.	.	19	80
				<hr/>
Amount carried forward	.	.	\$129	58

<i>Amount brought forward</i>	\$129 58	
Margaret A. Simpson, service pipe, etc.	14 00	
A. A. Perry, service pipe, etc.	5 00	
Mrs. Hannaford, " " "	9 45	
William Mills, " " "	10 00	
Frank E. Hodgkins, service pipe, etc.	40 58	
George Mellidew, service pipe, etc.	28 39	
Frederick H. Tibbetts, service pipe, etc.	19 10	
William Taylor, service pipe, etc.	25 66	
Seward Dodge, " " "	24 25	
E. G. Davis, " " "	29 47	
William Veazie, " " "	30 00	
Albert Fitz, " " "	10 50	
Robert Butterworth, service pipe, etc.	12 10	
S. W. Grant, " " "	12 00	
McLean Asylum, fittings	10 23	
T. A. Bent, "	1 50	
Milo Crane, labor	4 00	
Ellsworth Fiske, labor	2 00	
Watering streets account, stand- pipes	87 00	
	<hr/>	
	\$504 81	
Water service assessments, pipes laid, cost of service	6,766 94	
	<hr/>	\$7,271 75
DEBIT.		
Cash, paid laborers	\$2,785 27	
George K. Paul & Co., pipe	943 34	
Sumner & Goodwin, fittings	204 16	
Walworth Manufacturing Co., fit- tings	193 18	
Stults & Mansur, fittings	657 05	
C. M. Hovey, "	19 96	
Braman, Dow, & Co., fittings	3 94	
	<hr/>	
<i>Amounts carried forward</i>	\$4,806 90	\$7,271 75

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 115

<i>Amounts carried forward</i>	.	.	\$4,806 90	\$7,271 75
Chapman Valve Manufacturing Co.,				
valves	.	.	19 82	
Ward & Curley, fittings	.	.	469 08	
Dalton & Ingersoll, fittings	.	.	50 46	
W. H. Ward & Co.,	"	.	145 75	
James P. Fegan,	"	.	100 00	
A. J. Wilkinson & Co., tools	.	.	26 61	
Decker & Holton,	"	.	37 15	
Guptill & Dove,	"	.	27 00	
Boston Lead Manufacturing Co.,				
lead pipe, etc.	.	.	276 30	
Boston Belting Co., washers	.	.	28 58	
Davis & Farnum Manufacturing				
Co., service boxes	.	.	756 46	
Fred H. Hilton & Co., fittings	.	.	266 43	
Boston Bolt Co., brass screws	.	.	39 63	
John S. Rice & Co., iron pails	.	.	8 50	
Somerville Iron Foundry Co.,				
clamps	.	.	9 00	
H. Finnegan, soldering coppers	.	.	5 00	
Edson Manufacturing Co., pump,				
etc.	.	.	28 90	
Charles Holmes & Son, plumbing	.	.	2 80	
Charles Bartley, supplies	.	.	3 45	
W. B. Holmes,	"	.	9 61	
John McKenna, charcoal	.	.	11 90	
Samuel Walker & Co., naphtha	.	.	50	
Sanborn & Hatch, bricks	.	.	2 40	
Edwin M. Bright, die stock	.	.	9 00	
E. B. Wildes, labor	.	.	7 00	
Blackall's Express, expressing	.	.	1 50	
George T. Day,	"	.	30	
			<hr/>	
			\$7,150 03	
Water maintenance, balance transferred			121 72	
			<hr/>	
				\$7,271 75
				<hr/>

WATER SERVICE ASSESSMENTS.

CREDIT.

Cash, received of sundry persons for		
water services	\$6,322 13	
Balance to debit in account 1888	1,361 73	
	<hr/>	\$7,683 86

DEBIT.

Balance from 1886	\$916 92	
Water services, service pipes laid in 1887	6,766 94	
	<hr/>	\$7,683 86
		<hr/>

WATER MAINTENANCE.

CREDIT.

Appropriations, amount assessed		\$7,000 00
Water loan interest, transferred		15,800 00
Water services, transferred		121 72
Cash, received of R. P. Benton, part		
cost of laying pipe	\$100 00	
George W. Ireland, part cost of		
laying pipe	145 54	
Union Glass Co., water pipe, etc.	166 12	
C. H. North & Co., pipe labor, etc.	37 66	
Middlesex Bleachery and Dye		
Works, pipe labor, etc.	34 07	
McLean Asylum, fittings, labor, etc.	17 60	
Somerville Iron Foundry, old iron	30 84	
Frank Herrick, old iron	4 05	
Asa Durgin, pipe	1 87	
Mike Canney, labor	3 75	
Town of Medford, tar and oil	4 50	
S. W. Dow, manure	12 00	
Sewer department, labor and mate-		
rials	31 45	
	<hr/>	\$589 45
Excess and deficiency account, balance		
to debit of account	2,172 33	
	<hr/>	2,761 78
<i>Amount carried forward</i>		<hr/>
		\$25,683 50

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 117

Amount brought forward \$25,683 50

DEBIT.

Cash, paid laborers	\$11,801 55
Nathaniel Dennett, salary as super- intendent	1,500 00
Disbursements	29 48
Frederic W. Stone, salary as clerk	200 00
Disbursements	5 22
Chapman Valve Manufacturing Co., gates	417 86
Eddy Valve Co., valve box	3 50
Davis & Farnum Manufacturing Co., castings	622 03
Somerville Iron Foundry Co, cast- ings	236 70
R. D. Wood & Co., iron pipe	7,105 23
Boston Lead Manufacturing Co., lead and pipe	528 97
Chadwick Lead Works, lead	85 30
Charles Holmes & Co., "	16 48
James F. Davlin, "	20 00
W. L. Snow, "	6 11
Walworth Manufacturing Co., fit- tings	12 43
Whittier Machine Co., "	1 50
Horatio Wellington, cement	230 66
L. G. Burnham & Co., cement	11 40
H. W. Raymond, hardware	63 61
Whitney & Snow, "	34 84
A. J. Wilkinson & Co., hardware	4 16
John S. Rice & Co., "	13 40
Spencer Childs, horse	225 00
Seward Dodge, blacksmithing, etc.	136 49
Timothy O'Brien, horseshoeing	44 37
Charles Maguire, "	21 60
Brown & Call, blacksmithing	12 63
Abbott Downing Co., caravan	275 00

<i>Amounts carried forward</i>	\$23,665 52	\$25,683 50
--	-------------	-------------

<i>Amounts brought forward</i>	\$23,665 52	\$25,683 50
G. E. Jones & Co., repairing sleigh	11 25	
Charles B. Edgerly, oats	179 50	
James E. Whitaker, hay	162 87	
Fulton O'Brion, grain	26 01	
Elias Lathrop, ointment	2 00	
J. Leland, wheelwright work	6 15	
E. Spalding, harness work	74 68	
Hill & Langtrety, "	48 07	
James Cogan, "	6 00	
E. H. Buxton, painting wagon	12 00	
S. W. Fuller, lumber	105 03	
E. D. Sawyer & Co., lumber	8 18	
George H. Mason & Co., lanterns	6 75	
Union Glass Co., "	5 25	
W. L. Libby & Co., "	5 97	
Chelmsford Foundry Co., hayrack, etc.	4 00	
Boston Bolt Co., bolts	68 91	
Boston Belting Co., hose	4 41	
Edson Manufacturing Co., pump, etc.	12 60	
Watson & Bisbee, wood plugs, etc.	21 30	
Samuel Walker & Co., oil	18 84	
Alden Spear, Sons, & Co., oil	7 41	
Charles Bartley, "	2 14	
John Cleary, lumber	7 00	
Sewell & Day Cordage Co., rope	43 75	
Guptill & Steere, repairing drill	2 25	
Murdock Parlor Grate Co., post guard	5 50	
George D. Putnam, barrow	7 52	
Ames Plow Co., chains	2 35	
M. A. Brown, mending blankets	2 25	
D. Cutter, repairing clock	3 50	
Jackson Caldwell & Co., cot bed	5 00	
Hallet & Son, canvas	2 24	
Boston Belting Co., washers	5 81	
<i>Amounts carried forward</i>	\$24,552 01	\$25,683 50

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 119

<i>Amounts brought forward</i>	.	\$24,552 01	\$25,683 50
W. B. Plympton, polish	.	1 10	
T. W. Norman, picture frames	.	3 20	
H. D. & W. S. Durgin, ice	.	6 00	
Fresh Pond Ice Co., " "	.	1 00	
B. F. Wild & Co., fuel	.	21 90	
E. R. Perham, " "	.	2 35	
J. A. Porter & Co., " "	.	5 00	
J. O. Hayden & Co., printing	.	48 50	
Aaron R. Gay & Co., stationery	.	22 63	
Thomas Groom & Co., " "	.	8 77	
W. J. Emerson, rubber boots	.	12 00	
Hall Rubber Co., rubber mittens	.	6 75	
Bagnell & Loud Block Co., hooks	.	50	
Dodge, Haley, & Co., tools	.	29 82	
S. T. Kirk, carpenter work	.	5 00	
Globe Gas Light Co., naphtha	.	1 00	
Putnam & Foley, waste	.	8 42	
E. S. Conant & Co., salt	.	15 00	
Sanborn A Hatch, bricks	.	8 64	
George McKenna, filling trenches	.	4 00	
Jeremiah O'Brien, filling	.	2 00	
W. A. Greenough & Co., county directory	.	2 50	
W. A. Greenough & Co., Somerville directory	.	2 00	
S. J. Wood, keys	.	5 25	
Dennis Haggerty, washing	.	1 00	
George C. Bonner, horse hire	.	16 00	
N. E. Fitz & Co., wharfage	.	49 63	
Schooner Melissa Trask and owners, freight on pipe	.	322 20	
New England Telephone and Telegraph Co., rentals and tolls	.	97 65	
Medford Water Board, pipe	.	47 90	
Cambridge Gas Light Co., gas	.	20 86	
Barker & Tibbetts, expressing	.	3 75	
Steele & Webster, teaming	.	176 51	
<i>Amounts carried forward</i>	.	\$25,510 84	\$25,683 50

<i>Amounts brought forward</i>	\$25,510 84	\$25,683 50
Caldwell & Staples, teaming	9 25	
George T. Day, expressing	3 90	
J. C. Ellis, compensation for dam- ages	30 00	
Patrick McClements, compensation for damages	15 00	
Michael Grady, compensation for damages	12 00	
James Fulton, compensation for damages	10 00	
Philip Caples, compensation for dam- ages	10 00	
Barney Black, compensation for damages	10 00	
James Tatten, compensation for dam- ages	10 00	
George W. Chase, compensation for damages	9 85	
Maurice Canfield, compensation for damages	10 00	
Patrick Kelley, compensation for damages	9 00	
George B. Christopher, compensa- tion for damages	3 05	
David Pope, compensation for dam- ages	5 00	
City of Boston, water rates	17 51	
Sewers account, labor, etc.	8 10	
	<hr/>	<u>\$25,683 50</u>

WATERING STREETS.

CREDIT.

Appropriations, amount assessed	\$3,000 00
Cash, received of abutters	6,048 33
<i>Amount carried forward</i>	<hr/> \$9,048 33

APPENDIX TO TREASURER AND COLLECTOR'S REPORT. 121

Amount brought forward \$9,048 33

DEBIT.

Cash, paid Christopher Burke, watering,	\$472 05
Frank Buttimer, watering . . .	407 45
T. F. Crimmings, " . . .	445 95
J. F. Elkins, " . . .	421 85
Charles Faulkner, " . . .	521 10
Henry Gray, " . . .	391 95
Martin Gill, " . . .	443 70
J. McCarthy, " . . .	420 30
George McKenna, " . . .	530 10
A. M. Prescott, " . . .	571 28
John Walsh, " . . .	517 95
Boston Belting Co., hose . . .	45 00
Boston Woven Hose Co., hose . .	40 15
J. O. Hayden & Co., advertising .	6 90
McDonnell Brothers, " . . .	4 50
J. A. Durell, hardware . . .	75
Christopher Burke, teaming . . .	4 50
David W. Crocker, repairing . . .	2 75
Seward Dodge, blacksmithing . .	204 10
F. Dooris, " . . .	75
C. A. Legallee, plumbing . . .	5 30
J. Leland, wheelwright work . .	71 90
L. A. Wright, " " . . .	1 50
City of Boston, water . . .	3,093 68
Highways account, labor, etc. . .	12 66
Water service account, stand-pipes,	87 00

\$8.725 12

Excess and deficiency, balance to credit
of account 323 21

\$9,048 33

TABLE D.

BALANCES DEC. 31, 1887.

Cash	\$3,136 53	
Funded debt		\$1,525,000 00
Highway betterment assessments	50 00	
Overplus on tax sales		102 13
Public property	1,265,281 05	
Property and debt balance	259,718 95	
Public Library		1,012 17
Real-estate liens	321 67	
State of Massachusetts, State aid	3,470 00	
State of Massachusetts, indigent soldiers and sailors	415 00	
Sidewalk assessments	2,566 34	
Sewer assessments	4,438 87	
Sundry persons		230 10
Schoolhouse in Ward Two		4,177 55
Schoolhouse in Ward Three		395 11
Schoolhouse in Ward Four		250 48
Temporary Loans		170,000 00
Taxes	160,407 40	
Water service assessments	1,361 73	
	<u>\$1,701,167 54</u>	<u>\$1,701,167 54</u>

REPORT

OF THE

COMMISSIONERS OF THE SINKING FUNDS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Jan. 11, 1888.

Accepted and referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

DOUGLAS FRAZAR, *Clerk pro tem.*

IN COMMON COUNCIL, Jan. 11, 1888.

Concurred in.

CHAS. S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

IN BOARD OF COMMISSIONERS OF THE SINKING FUNDS,
Dec. 27, 1887.

To the Honorable the Mayor and the City Council of the City of Somerville.

GENTLEMEN, — The undersigned present herewith the twelfth annual report of the condition of the sinking funds of the city.

The amount of the funds, Jan. 1, 1887, as per the eleventh annual report, was	\$584,052 41
The additions thereto during the year 1887 were: —	
Contribution by the city for the year . . .	40,725 00
Interest on investments in city bonds (\$541,500 one year at 5 per cent, and \$40,000 one year at 5½ per cent)	29,275 00
Interest on deposits in bank	252 88
A total of	<u>\$654,305 29</u>

Invested as follows: —

In bonds of the city of Somerville (\$612,500 at 5 per cent, and \$40,000 at 5½ per cent) . .	\$652,500 00
On deposit in Maverick National Bank . . .	1,805 29
	<u>\$654,305 29</u>

The several sinking funds are: —

City loan maturity of 1895	\$559,455 68
Sewer loan maturity of 1896	15,516 00
Water loan maturity of 1905	75,320 61
“ “ “ “ 1906	2,128 00
“ “ “ “ 1907	1,885 00
	<u>\$654,305 29</u>

Respectfully submitted,

HENRY F. WOODS, C. E. RYMES, JOHN F. NICKERSON,	} Commissioners.
---	------------------

REPORT OF THE SCHOOL COMMITTEE.

CITY OF SOMERVILLE.

IN SCHOOL COMMITTEE, Dec. 27, 1887.

The superintendent submitted his annual report, which was read and accepted. It was voted that the committee adopt the report now submitted by the superintendent of public schools, and present it to their fellow-citizens as the report of the school committee for the year 1887.

J. H. DAVIS, *Secretary*.

IN BOARD OF ALDERMEN, Feb. 21, 1888.

Referred the report to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, *Clerk pro tem*.

IN COMMON COUNCIL, Feb. 23, 1888.

Concurred in.

CHAS. S. ROBERTSON, *Clerk*.

BOARD OF SCHOOL COMMITTEE, 1887.

HON. MARK F BURNS, Mayor, Chairman, *ex officio*.

CHARLES L. NORTH, President of the Common Council, *ex officio*.

WARD ONE.

JOHN H. BUTLER	Term expires 1887.
S. NEWTON CUTLER	“ “ 1888.
HORACE C. WHITE, M.D.	“ “ 1889.

WARD TWO.

CHARLES I. SHEPARD	Term expires 1887.
ALPHONSO H. CARVILL, M.D.	“ “ 1888.
JAMES F. BEARD	“ “ 1889.

WARD THREE.

WILLIAM P. HILL	Term expires 1887.
NORMAN W. BINGHAM	“ “ 1888.
QUINCY E. DICKERMAN	“ “ 1889.

WARD FOUR.

MARTIN W. CARR	Term expires 1887.
PROF. BENJ. G. BROWN	“ “ 1888.
HORACE P. MAKECHNIE, M.D.	“ “ 1889.

J. H. DAVIS,

Superintendent and Secretary.

STANDING COMMITTEES, 1887.

High School.

MESSRS. WHITE, BROWN, CARVILL, BINGHAM, BUTLER, DICKERMAN,
BEARD, MAKECHNIE.

East Somerville Schools.

MESSRS. CUTLER, WHITE, BUTLER, BURNS.

Prospect Hill Schools.

MESSRS. SHEPARD, BEARD, NORTH, CARVILL.

Winter Hill Schools.

MESSRS. BINGHAM, DICKERMAN, HILL.

Spring Hill Schools.

MESSRS. CARR, BROWN, MAKECHNIE.

West Somerville Schools.

MESSRS. MAKECHNIE, BROWN, CARR.

Evening Schools.

MESSRS. DICKERMAN, BROWN, BEARD, CUTLER.

Examination of Teachers.

MESSRS. BROWN, BUTLER, CARVILL.

Text-Books.

MESSRS. BUTLER, SHEPARD, HILL, CARR, WHITE, BINGHAM.

Repairs and Heating Apparatus.

MESSRS. SHEPARD, CUTLER, MAKECHNIE, HILL, NORTH.

School Supplies.

MESSRS. HILL, CARR.

Fuel.

MESSRS. NORTH, MAKECHNIE, CARVILL.

Music.

MESSRS. CUTLER, BINGHAM, MAKECHNIE, BEARD.

Finance.

MESSRS. BEARD, CARR.

Drawing and Penmanship.

MESSRS. MAKECHNIE, DICKERMAN, CUTLER, SHEPARD.

Salaries.

MESSRS. CARVILL, BROWN, CARR, BUTLER, HILL.

Approval of Private Schools.

MESSRS. BROWN, DICKERMAN, CUTLER, BEARD.

Additional School Accommodations.

MAYOR BURNS, MESSRS. CARVILL, BROWN, WHITE, HILL.

Examination of First Class.

MESSRS. CARVILL, WHITE, MAKECHNIE, DICKERMAN.

Examination of Second Class.

MESSRS. BROWN, CUTLER.

Examination of Third Class.

MESSRS. BINGHAM, CARR.

Examination of Fourth Class.

MESSRS. BUTLER, HILL.

Examination of Fifth Class.

MESSRS. MAKECHNIE, SHEPARD.

Examination of Sixth Class.

MESSRS. BEARD, NORTH.

SCHOOL COMMITTEE, 1888.

HON. MARK F. BURNS, Mayor, Chairman, *ex-officio*.

GEORGE O. PROCTOR, President of the Common Council, *ex-officio*.

WARD ONE.

S. NEWTON CUTLER, Pearl Street . . .	Term expires 1888.
HORACE C. WHITE, M.D., Franklin Street . .	“ “ 1889.
H. P. HEMENWAY, M.D., Perkins Street . .	“ “ 1890.

WARD TWO.

ALPHONSO H. CARVILL, M.D., Bow Street . .	Term expires 1888.
JAMES F. BEARD, Prospect Hill Avenue . .	“ “ 1889.
CHARLES I. SHEPARD, Vinal Avenue . .	“ “ 1890.

WARD THREE.

NORMAN W. BINGHAM, School Street . .	Term expires 1888.
Q. E. DICKERMAN, Highland Avenue . .	“ “ 1889.
WILLIAM P. HILL, Sycamore Street . .	“ “ 1890.

WARD FOUR.

PROF. BENJ. G. BROWN, Professors' Row . .	Term expires 1888.
H. P. MAKECHNIE, M.D., Elm Street . .	“ “ 1889.
MARTIN W. CARR, Craigie Street . .	“ “ 1890.

J. H. DAVIS, *Superintendent and Secretary*.
15 Myrtle Street, East Somerville.

Office hours, at City Hall, from 4 to 5 P.M., each day that the schools are in session.

STANDING COMMITTEES, 1888.

High School.

MESSRS. WHITE, BROWN, CARVILL, BINGHAM, DICKERMAN, BEARD,
MAKECHNIE, CUTLER.

Schools in East Somerville District.

MESSRS. CUTLER, HEMENWAY, WHITE, MAYOR BURNS.

Schools in Prospect Hill District.

MESSRS. BEARD, CARVILL, SHEPARD.

Schools in Winter Hill District.

MESSRS. DICKERMAN, HILL, BINGHAM.

Schools in Spring Hill District.

MESSRS. CARR, MAKECHNIE, PROCTOR.

Schools in West Somerville District.

MESSRS. BROWN, CARR, MAKECHNIE.

Rules and Regulations.

MESSRS. CUTLER, SHEPARD, HILL, CARR.

Examination of Teachers.

MESSRS. HEMENWAY, CARVILL, BROWN.

Text-Books.

MESSRS. SHEPARD, HILL, CARR, HEMENWAY, BINGHAM, BEARD, WHITE.

Music.

MESSRS. BINGHAM, MAKECHNIE, BEARD, CUTLER,

Evening Schools.

MESSRS. DICKERMAN, BROWN, SHEPARD, CUTLER.

Drawing and Penmanship.

MESSRS. MAKECHNIE, DICKERMAN, CUTLER, SHEPARD.

Approval of Private Schools.

MESSRS. BEARD, BROWN, DICKERMAN, CUTLER.

School Supplies.

MESSRS. CARVILL, CARR, HILL.

Finance.

MESSRS. CARR, BINGHAM, BEARD.

Salaries.

MESSRS. BROWN, CARR, HEMENWAY, HILL, CARVILL.

Repairs and Heating Apparatus.

MESSRS. HILL, CUTLER, MAKECHNIE, BEARD, PROCTOR.

Additional School Accomodations.

MAYOR BURNS, MESSRS. PROCTOR, CARVILL, BROWN, WHITE, HILL.

Fuel.

MESSRS. PROCTOR, MAKECHNIE, CARVILL.

Examination of First Class.

MESSRS. DICKERMAN, BROWN, CUTLER, CARVILL.

Examination of Second Class.

MESSRS. BINGHAM, CARR.

Examination of Third Class.

MESSRS. HILL, HEMENWAY.

Examination of Fourth Class.

MESSRS. SHEPARD, MAKECHNIE.

Examination of Fifth Class.

MESSRS. BEARD, PROCTOR.

Examination of Sixth Class.

MESSRS. WHITE, MAKECHNIE.

SUPERINTENDENT'S REPORT.

To the School Committee of Somerville.

GENTLEMEN, — In accordance with your instructions, and in compliance with statute requirements, the following report upon the condition of the public schools of this city for the year 1887 is respectfully submitted : —

SUMMARY OF STATISTICS.

POPULATION.

Population of the city, United States census, 1880,	24,985
“ “ “ State census, 1885 . . .	29,992
Number of persons in the city between five and fifteen years of age in May last, as ascertained by the truant officer . . .	5,722
In East Somerville District . . . 1,232	
Prospect Hill “ . . . 2,228	
Winter Hill “ . . . 789	
Spring Hill “ . . . 776	
West Somerville “ . . . 697	
Number between eight and fourteen years of age .	4,059

VALUATION.

Valuation of the city, May 1, 1887 . . .	\$27,469,300
Real estate \$25,219,900	
Personal estate 2,249,400	
Rate of taxation . . . . .	.0148
Estimated value of school property . . .	\$428,554

DWELLINGS.

Number of dwellings in the city, May 1, 1887 .	5,494
Number of dwellings constructed during the year, or in process of construction . . .	287

For a series of years, the number of dwellings in the city has not differed materially from the number of persons between five and fifteen years of age. Hence, a school is required for each fifty occupied dwellings.

EXPENDITURES FROM JAN. 1, 1887, TO JAN. 1, 1888.
BY THE SCHOOL COMMITTEE.

Salaries of teachers	\$84,029 61
“ “ janitors	5,083 74
“ “ truant officers	683 00
Salary of superintendent	2,000 00
Water	634 35
Gas	134 93
Text-books	2,935 00
Writing books	260 00
Drawing books	551 00
Printing	309 40
Stationery and other supplies	1,850 00
Miscellaneous	1,616 97
<hr/>	
Total expenditures	\$100,088 00

RECEIPTS.

Tuition of non-resident pupils	197 58
<hr/>	
Net expenditures	\$99,890 42
<hr/> <hr/>	

SCHOOL BUILDINGS.

The Bingham Schoolhouse on Lowell Street, and the Burns Schoolhouse on Cherry Street, which were in process of construction at the beginning of the year, were completed early in the summer, but were not occupied by schools until the beginning of the fall term in September.

These buildings are constructed of brick, and are similar in all respects. They are comely in appearance and pleasantly located. Each contains four schoolrooms which are light, spacious, and attractive. They are heated by steam, are furnished with the most modern appliances for ventilation, and are supplied with every thing essential to the comfort and convenience of pupils, and the successful prosecution of school work.

Cost of the Burns Schoolhouse, including furniture and heating apparatus	\$13,320 40
Cost of the land, 16,080 feet	1,929 60
	<hr/>
Total cost	\$15,250 00
	<hr/>
Cost of the Bingham Schoolhouse, including furni- ture and heating apparatus	\$13,224 36
Cost of the land, 20,806 feet	1,880 64
	<hr/>
Total cost	\$15,105 00
	<hr/>

Extensive, important, and satisfactory repairs and improvements have been made at the Prescott, Luther V. Bell, and Prospect Hill Schoolhouses during the year.

ADDITIONAL ACCOMMODATIONS.

West Somerville District. — Rooms located on Elm Street and north of the Arlington branch of the Lowell Railroad, have been hired for the accommodation of primary schools. Permanent accommodations will soon be required in that section of the city.

Prospect Hill District. — For the accommodation of pupils residing south of the Fitchburg Railroad, and also for the relief of the over-crowded schools in Prospect Hill District, the School Board, at their meeting in February last, passed an order requesting the City Council to construct in Ward Two, and south of the Fitchburg Railroad, a school building that will contain eight schoolrooms; and to construct it in such manner that four schoolrooms may be added whenever the necessities of the neighborhood where it will be located may require them.

In accordance with instructions of the City Council, the Committee on Public Property have selected a lot of land, located on Concord Square, on which to erect a building of the capacity specified by the School Board.

High-School House. — The high school has outgrown its accommodations. All of the schoolrooms are crowded, and about sixty pupils are occupying the school hall. When the school first occupied the present high-school building sixteen years ago, it contained one hundred and fifty pupils. The whole number of pupils belonging to the school at the present time is three hundred and

seventy-five. Increase in sixteen years, two hundred and twenty-five. Average annual increase, fourteen. In all probability this rate of increase will continue for many years in the future. Hence the necessity for the immediate adoption of measures for the enlargement of the high-school building.

At the meeting of the School Board in September, the committee on additional school accommodations were instructed to consider and recommend some plan for enlarging the high-school house. That committee have reported, and their recommendation will be presented to the next city government as soon as it is organized.

TABLE SHOWING THE NAME, LOCATION, DATE OF ERECTION, ESTIMATED VALUE, AND CAPACITY OF THE SEVERAL SCHOOL BUILDINGS.

NAME.	LOCATION.	When Built.	No. Feet in Lot.	Estimated Value.	No. of Rooms.
Union. . . .	Prospect Street (before)	1842	9,360	\$2,600	1
Cedar Street .	Cedar Street	1843	—	800	2
Franklin . . .	Somerville Avenue . .	1846	33,017	14,300	4
Prospect Hill .	Washington Street. . .	1848	25,313	20,600	6
Spring Hill . .	Beech Street	1850	4,991	1,700	1
Harvard . . .	Beacon Street	1851	9,810	2,600	1
Brastow . . .	Medford Street	1861	10,019	6,250	2
Jackson . . .	Poplar Street	1861	11,212	8,300	4
Forster . . .	Sycamore Street	1866	32,693	39,422	12
Prescott . . .	Pearl Street	1867	21,444	42,000	12
Webster . . .	Webster Avenue	1868	11,050	8,300	4
Bennett . . .	Joy Street.	1868	20,560	8,300	4
Morse	Summer Street	1869	29,109	26,000	6
High	Highland Avenue . . .	1971	—	44,000	9
Edgerly . . .	Cross Street	1871	26,428	43,100	8
Beech Street .	Beech Street (purchased)	1872	6,000	4,750	2
Luther V. Bell .	Vinal Avenue	1874	22,262	43,000	12
Highland . . .	Highland Avenue . . .	1880	23,260	33,000	8
Cummings . .	School Street	1884	11,300	15,357	4
Davis	Tufts Street	1884	29,584	18,333	4
Lincoln . . .	Broadway.	1885	17,662	15,487	4
Burns	Cherry Street	1886	16,080	15,250	4
Bingham . . .	Lowell Street	1886	20,896	15,105	4
			—	\$428,554	118

SCHEDULE OF SCHOOL PROPERTY IN MARCH, 1843.

Upper Winter Hill Schoolhouse and Land	.	.	.	\$500 00
Lower Winter Hill	"	"	.	600 00
Prospect Hill	"	"	.	1,400 00
Milk Row	"	"	.	650 00
				<hr/>
Total value	.	.	.	\$3,150 00

A history of these buildings is contained in the Annual Report of 1868-69.

SCHOOL DISTRICTS.

The necessity for a division of Prospect Hill District and the construction of a large school building for another grammar school centre, is becoming more urgent each succeeding year.

No addition has been made to the number of school districts or grammar masters for twenty years; but during those years our school population has increased threefold. The number of schools and of persons between five and fifteen years of age in Prospect Hill District at the present time, exceeds the number in the entire city twenty years ago. Thirty-four schools containing eighteen hundred and seventy-five pupils are tributary to the first class, which, necessarily, occupies two schoolrooms.

I will reiterate what was said under the head of "additional school districts" in the report of 1884: "The best arrangement yet devised for convenience and efficiency, is a district containing twelve grammar schools, under the supervision of a grammar master, and accommodated in one building centrally located, and nine primary schools situated near the homes of the pupils. That number of schools will furnish, ordinarily, a first class of about fifty pupils for the principal and his assistant, — a number that can be well accommodated in one schoolroom. Any increase of that number detracts seriously from the advantages which pupils should receive during the year in which they are members of the first class, — the most important year, doubtless, of their entire public-school course."

TABLE SHOWING THE NUMBER OF SCHOOLS AND TEACHERS IN THE SEVERAL DISTRICTS, THE NUMBER OF PUPILS IN ATTENDANCE IN DECEMBER, THE NUMBER IN THE FIRST CLASS, AND THE AVERAGE NUMBER TO A SCHOOL.

DISTRICTS.	No. of Schools.	No. of Teachers.	No. of Pupils.	No. in First Class.	Average No. to a School.
Prospect Hill	36	37	1,889	72	52.5
East Somerville	23	24	1,178	62	51.2
Winter Hill	17	18	816	40	48.0
Spring Hill	16	17	732	44	45.7
West Somerville	15	16	702	57	46.8
Total	107	112	5,317	275	49.9

The following items give the time of the establishment of the several grammar school centres, the number of persons of school age at the time, and the average number to a grammar master :—

Prospect Hill Grammar School.—April, 1842, the Prospect Hill Grammar School was organized. William E. Graves was elected principal. Salary, \$600. Number of pupils in the town at that time, 293.

Lower Winter Hill Grammar School.—In 1843 the Lower Winter Hill Grammar Schoolhouse, containing one schoolroom, was built. April, 1844, the Lower Winter Hill Grammar School was organized. George Swan was elected principal. Salary, \$30 per month. Number of persons of school age at that time, 308. Average number to a grammar master, 154. The name “ Lower Winter Hill School ” was changed to “ Prescott School,” Jan. 8, 1847.

Franklin Grammar School.—In 1846 the Franklin Schoolhouse, containing two schoolrooms, was built. In November of that year the Franklin Grammar School was organized. William E. Graves of the Prospect Hill School was appointed principal. Number of persons of school age at that time, 524. Average number to a grammar master, 175.

The Franklin Schoolhouse was enlarged to its present size in 1862.

Forster Grammar School.—In 1854 the first Forster Schoolhouse, containing four schoolrooms, was built. In February, 1855, the Forster Grammar School was organized. John Jameson was

elected principal. Salary, \$700. Number of persons of school age at that time, 1,043. Average number to a grammar master, 260.

Lincoln Grammar School. — In 1866 the first Lincoln School-house, containing four schoolrooms, was built. January, 1867, the Lincoln Grammar School was organized. Horace P. Makechnie was elected principal. Salary, \$1,000. Number of persons of school age at that time, 2,123. Average number to a grammar master, 425.

SUMMARY.

DISTRICTS.	SCHOOL.	Date of Organization.	No. of Pupils.	Average No. to a Grammar Master.
Prospect Hill . .	Prospect Hill . .	April, 1842	293	293
East Somerville . .	Prescott . . .	April, 1844	308	154
Spring Hill . . .	Franklin . . .	Nov. 1846	524	175
Winter Hill . . .	Forster . . .	Feb. 1855	1,043	261
West Somerville . .	Lincoln . . .	Jan. 1867	2,123	425

Average number of pupils to a grammar master at the present time is 1,138.

SCHOOLS.

The schools which were occupying rooms in Clarendon Block and the basements of the Morse and the Forster School buildings, at the close of the school year, and one of the Cedar Street schools, were transferred to the new buildings. In September an additional grammar school was formed in each of those buildings, and in October a primary school, in a room hired for the purpose, on Elm Street, West Somerville.

Whole number of schools	108
High school	1
Grammar schools	59
Primary schools	48
Increase for the year	3

EXHIBIT OF THE SCHOOLS AND SCHOOL BUILDINGS IN THE SEVERAL DISTRICTS.

DISTRICTS.	SCHOOLS.	No. of Schoolrooms Occupied.	No. of Grammar Schools.	No. of Primary Schools.	Total No. of Schools.
East Somerville	High . . .	9	—	—	1
	Prescott . .	12	8	3	11
	Edgerly . .	8	4	4	8
“	Davis . . .	4	1	3	4
Prospect Hill	L. V. Bell . .	12	11	1	12
“	Prospect Hill . .	6	3	3	6
“	Cummings . .	4	1	3	4
“	Brastow . . .	2	1	1	2
“	Bennett . . .	4	1	3	4
“	Jackson . . .	4	1	3	4
“	Webster . . .	3	1	2	3
“	Union	1	—	1	1
Winter Hill	Forster . . .	12	8	4	12
“	Bingham . . .	4	1	3	4
“	Cedar Street . .	1	—	1	1
Spring Hill	Morse	6	6	—	6
“	Beech Street . .	2	—	2	2
“	Spring Hill . .	1	—	1	1
“	Franklin . . .	4	2	2	4
“	Harvard . . .	1	—	1	1
West Somerville	Highland . . .	8	6	2	8
“	Elm Street . .	1	—	1	1
“	*Burns	4	2	2	4
“	Lincoln . . .	4	2	2	4
		116	59	48	108

* Tributary to the Morse and the Highland Schools.

TEACHERS.

Thirteen teachers have resigned within the year, sixteen have been elected, and one — Mrs. Isabella M. Prince — has died.

Mrs. Prince was educated in our public schools, and was graduated at the high school with the class of 1865. For ten years, and until within a few weeks of the time of death, she was teacher of the Union primary school. She was tender and watchful of her pupils, earnest in her efforts for their improvement, and faithful in the performance of every duty.

ELECTED.

Mr. Charles T. Murray, junior sub-master in the high school.
Miss Josephine H. Short, teacher in the high school.

Miss Bessie R. White, teacher in the high school.
Miss Marietta S. Murch, teacher in the Foster School.
Mrs. Alice W. Emerson, principal of the Bingham School.
Miss Cora Foster, teacher in the Bingham School.
Miss Lilla J. Pike, teacher in the Edgerly School.
Miss Nellie A. Knowlton, teacher in the L. V. Bell School.
Miss Annie E. Searles, teacher in the Bennett School.
Miss Carrie E. Cobb, teacher in the Webster School.
Miss Florence B. Ashley, teacher in the Harvard School.
Miss Mary E. Emerson, teacher in the Highland School.
Miss Harriet B. Sargent, teacher in the Highland School.
Miss Jennie C. Frazier, teacher in the Highland School.
Miss H. A. P. Roth, principal of the Lincoln School.
Miss Pauline A. Osgood, teacher in the Lincoln School.

RESIGNED.

Mr. Fred B. Hall, teacher in the high school.
Miss Minnie C. Clark, teacher in the high school.
Miss Agnes L. Adams, teacher in the Foster School.
Miss Harriette H. Winslow, teacher in the Edgerly School.
Miss Anna L. Prescott, teacher in the Edgerly School.
Miss Lilla A. Haywood, teacher in the Highland School.
Miss Alice E. Gage, teacher in the Highland School.
Miss Evelyn E. Getchell, teacher in the Highland School.
Miss Emeline S. Curtis, teacher in the Highland School.
Miss Jennie Colburn, teacher in the Lincoln School.
Miss Elvira Morrill, teacher in the L. V. Bell School.
Miss Ellen M. Farnsworth, teacher in the L. V. Bell School.
Miss Estelle E. Patrick, teacher in the Webster School.

The teachers who have resigned were highly esteemed, and were doing good work in their respective places. Many of them were classed with the best in the city.

So many changes have been rung upon the correspondence, in character, between teachers and their schools, the subject has become trite and apparently void of interest; but it is none the less important on that account. The character of the schools in any community always indicates the quality of the teachers employed by that community. Hence no consideration should ever induce us to deviate from our settled policy and practice, to fill

all vacancies and supply all new schools with the best teachers that our inducements will secure, — teachers eminent in all essential qualifications.

The very generally admitted excellence of our schools in the several departments, is due, in large measure, to the intelligence, the ability, the fidelity, and the untiring devotion of the teachers. We cordially commend them to the confidence of our citizens, and would solicit for them a continuance of the sympathy and co-operation which have been so generously bestowed hitherto.

Number of teachers	123
Male teachers, 9 ; female teachers, 114.	
Number of teachers in the high school	10
Male teachers, 3 ; female teachers, 7.	
Number of teachers in the grammar schools	64
Male teachers, 5 ; female teachers, 59.	
Number of teachers in the primary schools	48
One teacher of vocal music.	
Number of teachers who are graduates of our high school	53
Number of teachers who are graduates of normal schools	30

SCHOOLS AND TEACHERS.

SCHOOLS.	TEACHERS.	Salaries.	When Elected.
High	George L. Baxter	\$2,400	1867
"	Frank M. Hawes	1,800	1879
"	Charles T. Murray	1,200	1887
"	Sarah W. Fox	1,200	1868
"	Sarah F. Litchfield	850	1880
"	Fannie W. Kaan	850	1882
"	Eudora Morey	800	1882
"	Laura E. Giddings	800	1882
"	Bessie R. White	700	1887
"	Josephine H. Short	600	1887
Prescott	G. A. Southworth	1,900	1873
"	Anna M. Bates	700	1874
"	Adelaide Reed	650	1877
"	Amy C. Hudson	600	1885
"	Abbie A. Anderson	600	1878
"	Emma M. Cate	600	1882
"	Amelia I. Sears	600	1873
"	Catharine T. Brown	575	1868
"	Clara Taylor	575	1871
"	Sarah E. Pratt	600	1877
"	Elgina M. Plummer	550	1877
"	Florence M. Morton	550	1882

SCHOOLS AND TEACHERS—*Continued.*

SCHOOLS.	TEACHERS.	Salaries.	When Elected.
Edgerly	Frank P. Hudson	800	1877
“	Lilla J. Pike	600	1887
“	Hattie M. Pierce	575	1882
“	Fannie F. Fuller	575	1884
“	Mary B. Currier	550	1873
“	Lillian Nealley	550	1882
“	Clara M. Bagley	550	1873
“	Ada Cowles	550	1875
Davis	Lucretia A. Burns	625	1882
“	Florence A. Robinson	550	1883
“	Gertrude A. Earle	450	1884
“	Priscilla A. Merritt	525	1885
Luther V. Bell	Herbert L. Morse	1,700	1885
“	Abbie C. Hunt	675	1873
“	May E. Berry	675	1880
“	Hattie E. Adams	600	1885
“	Lillian M. Walton	600	1886
“	Ellen M. Gooding	600	1868
“	Emma F. Schuh	600	1874
“	Alice M. Wight	600	1886
“	Fannie A. Wilder	600	1874
“	Nellie A. Hamblin	600	1882
“	Alice I. Norcross	575	1885
“	Nellie A. Knowlton	575	1887
“	Eliza L. Schuh	550	1882
Prospect Hill	Helen Tincker	700	1872
“	Sarah A. Tuttle	350	1886
“	Ellen Ledyard	575	1874
“	Lizzie W. Parkhurst	550	1885
“	Lucy E. Clark	400	1884
“	Charlotte I. Houghton	550	1875
Cummings	Lydia J. Page	625	1869
“	Addie M. Brown	350	1886
“	Augusta M. Houghton	550	1877
“	Annie Coffin	400	1884
Brastow	Maria Miller	575	1875
“	Helen M. Dodge	450	1884
Bennett	Mary B. Smith	625	1885
“	Annie E. Searles	550	1887
“	Annie Sheridan	350	1886
“	Isadore E. Taylor	550	1883
Jackson	Annie E. McCarty	625	1880
“	Fannie L. Gwynn	350	1886
“	Lena G. Allen	450	1884
“	Annie E. Crimmings	450	1884
Webster	Carrie E. Cobb	625	1887
“	Ida F. Fillebrown	300	1887
“	Annie L. Savage	550	1873
Union	Annie E. Robinson	550	1876
Forster	John S. Hayes	1,800	1878
“	Mary E. Northup	675	1878
“	Mary E. Stiles	600	1883

SCHOOLS AND TEACHERS—*Concluded.*

SCHOOLS.	TEACHERS.	Salaries.	When Elected.
Forster	Marietta S. Murch	600	1887
“	Minna L. Wentworth	600	1885
“	Frances M. Guptill	600	1869
“	Lizzie F. Clement	575	1884
“	Alice A. Batchelor	575	1877
“	Addie S. Winnek	575	1883
“	Mary A. Osborne	550	1885
“	Leila V. Colby	550	1879
“	Annie S. Gage	550	1883
“	Lizzie G. Perry	550	1878
Bingham	Alice W. Emerson	625	1887
“	Alice Simpson	550	1872
“	Nora F. Byard	450	1884
“	Cora Foster	500	1887
Cedar Street	Alice M. Porter	550	1880
Morse	Horatio D. Newton	1,600	1886
“	Mina J. Wendell	675	1882
“	Stella Hall	600	1884
“	Pauline S. Downes	600	1872
“	Ella F. Gould	600	1882
“	Anna E. Sawyer	600	1873
“	Mary A. Haley	575	1868
Beech Street	Mary E. Bosworth	600	1882
“	Nelly W. French	550	1886
Spring Hill	Bertha L. Emerson	550	1885
Franklin	Hattie A. Hills	650	1874
“	Emeline C. Summerhayes	575	1876
“	Anna C. Damon	550	1879
“	Caroline S. Plimpton	550	1859
Harvard	Florence B. Ashley	350	1887
Burns	Laura J. Brooks	625	1883
“	Minnie S. Turner	450	1885
“	Hallie M. Hood	550	1884
“	Annie L. Browne	450	1885
Highland	George E. Nichols	1,700	1877
“	M. Alice Paul	675	1879
“	Harriet B. Sargent	600	1887
“	Florence N. Robbins	600	1885
“	S. Adelaide Blood	600	1882
“	Annie R. Cox	575	1883
“	Jennie C. Frazier	475	1887
“	Sarah E. Pray	550	1878
“	Mary E. Emerson	550	1887
Elm Street	Mary Winslow	300	—
Lincoln	H. A. P. Roth	625	1887
“	Pauline A. Osgood	400	1887
“	Charlotte F. Mott	550	1886
“	Annie C. Thayer	400	1885
Teacher of Music	S. Henry Hadley	1,333	1868

PUPILS.

Number of pupils in attendance in January	5,267
Number of persons in the city between five and fifteen years of age, on the first day of May	5,722
Number between eight and fourteen years of age	4,059
Number in attendance in December	5,692
In the high school	375
In the grammar schools,	2,809
In the primary schools	2,508
Number over fifteen years of age in December	536
In the high school	340
In the grammar schools	196
Whole number registered during the year	6,605
In the high school	518
In the grammar schools	2,956
In the primary schools	3,131
Average number to a teacher in the high school in December	37
Average number to a room in the grammar schools in December	47
Average number to a room in the primary schools in December	52

TABLE SHOWING THE NUMBER OF PUPILS IN EACH OF THE THIRTEEN CLASSES IN DECEMBER, AND THE AVERAGE AGE OF PUPILS IN EACH CLASS.

Grade.	Class.	Boys.	Girls.	Total.	Average Age.
High	First	23	35	58	18 yrs. 6 mos.
"	Second	22	50	72	17 " 4 "
"	Third	42	62	104	16 " 2 "
"	Fourth	56	85	141	15 " 8 "
Grammar	First	123	152	275	14 " 7 "
"	Second	168	164	332	14 " 0 "
"	Third	240	208	448	13 " 0 "
"	Fourth	299	207	506	12 " 2 "
"	Fifth	314	243	557	11 " 4 "
"	Sixth	395	296	691	10 " 3 "
Primary	First	341	293	634	9 " 5 "
"	Second	396	334	730	8 " 2 "
"	Third	660	484	1,144	6 " 5 "
		3,079	2,613	5,692	

PRIMARY SCHOOLS.

The work required of the primary schools is definitely outlined in our course of study, and is ample. We would not extend our instruction beyond the prescribed limits, but would aim to secure great thoroughness within them.

Advancement in the primary grades, especially, should be by short stages and an easy gradation. The danger is, that too much, rather than too little, will be expected and demanded of children in the primary schools. Forced growth is unhealthy growth, and should be avoided. Precocity is usually prophetic of premature decay. The temptation and the tendency to foster it should be firmly and persistently resisted. In our instruction and training, the natural development of the child's mental faculties should be studiously observed, and scrupulously followed.

We should labor earnestly to encourage promptness, close attention, and careful observation. Correct habits in the performance of whatever may be required should be carefully cultivated. All exercises should be brisk and spirited; but recitations and instruction should never be prolonged to the point of weariness. In arithmetic, small numbers, such as are within the comprehension of pupils, should be employed. By incessant repetition, great facility and accuracy in all possible combinations of abstract numbers, to the extent indicated in the course of study, should be secured. The application of numbers in the solution of concrete problems is mainly the work of later years.

Obtaining correct pronunciation, distinct articulation, and familiarity with words is the prime, the paramount work of primary schools. Hence reading and spelling claim, and should receive, a large share of time and attention. Children should read much. Exercises in reading should be frequent, but not prolonged. A good degree of mechanical skill must precede rhetorical reading, and its attainment is the special work of the primary schools and the lower grades of the grammar schools. If pupils are unable to read with fluency, their minds will be occupied with the words and diverted from the thoughts expressed; consequently, they cannot apply correctly the proper emphasis, stress, and inflections, and produce good reading. When, however, the words employed are familiar, and the thoughts expressed are understood, children of the lowest grade of the primary schools even, if well in-

structed, can read with proper expression and good rhetorical effect.

The special need of our primary schools at the present time is a systematic course of instruction in vocal music. For many years, music has been taught in the high school and the several grades of the grammar schools, with marked success. Pupils in the lower and middle classes of the grammar schools read ordinary music, at sight, with facility; and pupils of the high school and the upper classes of the grammar schools, music of high order. But from want of special and systematic instruction, music in our primary schools bears unfavorable comparison with that in schools of similar grade in neighboring cities.

It is the universal testimony of those who have had long experience in teaching music in primary schools, that it can be taught successfully to pupils of the lowest grade, that children at an early age learn to sing and learn to read with equal facility.

Systematic instruction will prevent those habits of singing which children are prone to contract, to the injury of their voices, when left to themselves or to unskilled guidance, and will furnish new and interesting songs for recreation, and such as are suited to form part of the devotional exercises of the schools.

Number of primary schools	48
Number of pupils in attendance in January	2,257
Number admitted during the year	874
Number promoted to the grammar schools	549
Number in attendance in December	2,508
Boys, 1,397; girls, 1,111.	
Number registered during the year	3,131

EXHIBIT OF THE PRIMARY SCHOOLS.

SCHOOLS.	TEACHERS.	Average Whole No.	Average Attendance.	Per cent of Attendance.	Tardinesses.	Dismissals.
Prescott . . .	S. E. Pratt . . .	45.9	43.0	93.7	4	9
" . . .	E. M. Plummer . . .	44.9	42.0	93.7	10	16
" . . .	F. M. Morton . . .	64.8	59.6	91.9	12	8
Edgerly . . .	M. B. Currier . . .	48.1	46.2	96.1	4	11
" . . .	Lillian Nealley . . .	55.5	43.5	95.6	6	9
" . . .	C. M. Bagley . . .	48.6	44.8	92.3	17	6
" . . .	Ada Cowles . . .	51.6	47.6	92.2	24	1
Davis . . .	F. A. Robinson . . .	44.6	42.2	94.6	14	21
" . . .	G. A. Earle . . .	45.2	41.5	91.8	18	8
" . . .	P. A. Merritt . . .	54.8	49.7	90.7	15	6
L. V. Bell . . .	E. L. Schuh . . .	47.5	44.6	94.2	8	6
Cummings . . .	A. M. Brown . . .	55.8	52.6	94.3	23	13
" . . .	A. M. Houghton . . .	57.7	52.3	90.6	15	0
" . . .	Annie Coffin . . .	50.1	46.5	92.8	18	4
Prospect Hill . . .	L. W. Parkhurst . . .	66.8	62.8	94.0	33	31
" . . .	L. E. Clark . . .	45.4	40.8	89.9	28	38
" . . .	C. I. Houghton . . .	50.6	44.7	88.2	43	11
Brastow . . .	H. M. Dodge . . .	49.1	44.0	89.6	27	17
Bennett . . .	A. E. Searles . . .	42.8	38.7	90.4	129	13
" . . .	Annie Sheridan . . .	45.3	40.8	90.1	48	18
" . . .	I. E. Taylor . . .	51.8	46.1	88.9	83	15
Jackson . . .	F. L. Gwynn . . .	36.9	33.0	89.4	63	7
" . . .	L. G. Allen . . .	38.5	35.1	91.2	123	0
" . . .	A. E. Crimmings . . .	49.0	46.0	93.7	38	0
Webster . . .	I. F. Fillebrown . . .	31.6	28.3	89.6	49	8
" . . .	A. L. Savage . . .	46.1	43.8	95.0	39	13
Union . . .	A. E. Robinson . . .	43.8	39.2	89.5	59	32
Forster . . .	M. A. Osborne . . .	43.5	40.7	93.6	7	13
" . . .	L. V. Colby . . .	44.0	41.1	93.4	10	10
" . . .	A. S. Gage . . .	45.4	42.2	92.9	7	3
" . . .	L. G. Perry . . .	71.0	65.9	92.8	11	7
Bingham . . .	Alice Simpson . . .	44.0	39.6	90.0	31	42
" . . .	N. F. Byard . . .	48.3	45.9	94.9	2	6
" . . .	Cora Foster . . .	56.1	52.6	93.7	19	7
Cedar Street . . .	A. M. Porter . . .	33.1	28.3	85.5	37	12
Beech Street . . .	M. E. Bosworth . . .	36.4	34.6	95.2	8	14
" . . .	N. W. French . . .	36.6	33.6	91.9	23	6
Spring Hill . . .	B. L. Emerson . . .	43.2	41.2	95.4	31	35
Franklin . . .	A. C. Damon . . .	44.4	41.0	92.4	49	30
" . . .	C. S. Plimpton . . .	46.4	43.4	93.5	29	18
Harvard . . .	F. B. Ashley . . .	43.1	39.3	91.1	117	20
Burns . . .	H. M. Hood . . .	38.6	35.2	91.0	16	17
" . . .	A. L. Brown . . .	33.8	31.2	92.1	19	15
Highland . . .	S. E. Pray . . .	47.7	44.6	93.4	8	14
" . . .	M. E. Emerson . . .	53.9	50.7	94.0	17	33
Elm Street . . .	Mary Winslow . . .	34.6	30.7	87.4	10	6
Lincoln . . .	C. F. Mott . . .	48.4	44.6	92.1	18	10
" . . .	A. C. Thayer . . .	42.4	39.0	91.9	13	9
		2,237.7	2,064.8	92.3	1,432	648

GRAMMAR SCHOOLS.

Two grammar schools have been formed within the year, — one in each of the new buildings.

Present number of grammar schools	59
Number of pupils in attendance in January	2,652
Number received from the primary schools	549
Number in attendance in December	2,809
Boys, 1,539 ; girls, 1,270.	
Average number to a school in December	47
Number over fifteen years of age	196
Whole number registered during the year	2,956

Thursday, May 26, was assigned as the "Public Day," on which all the schools in the city were open to visitors. On that day a large number of parents and others interested availed themselves of the opportunity to witness the ordinary exercises of the schools.

Grammar School Graduates' Day. — In the evening of Thursday, June 30, the graduates of the several grammar schools met in the same place, and received their diplomas from his Honor Mayor Burns. The graduates were honored by the presence of an audience of about fifteen hundred persons, including his Excellency, Gov. Ames. The occasion was one of much interest.

ORDER OF EXERCISES.

1. VOLUNTARY.
2. PRAYER REV. J. W. HAMILTON.
3. *SINGING. — Anthem: "Lift up your heads." *Glück.*
4. ADDRESS HIS EXCELLENCY, GOV. OLIVER AMES.
5. SINGING. { *a.* Bass Solo: "The Ocean." *Clarke.*
 b. Tenor Solo: "The Serenade." *Verdi.*
6. PRESENTATION OF DIPLOMAS MAYOR MARK F. BURNS.
7. SINGING. — Semi-Chorus: "May-Time." *Glover.*
8. ADDRESS HON. CHARLES J. NOYES.
9. SINGING. — "The Banner of the Free." *Richards.*

* *Director.* — S. HENRY HADLEY, Teacher of Music.

LUTHER V. BELL SCHOOL.

DISTRICT COMMITTEE.

CHARLES I. SHEPARD. ALPHONSO H. CARVILL. JAMES F. BEARD.

Principal, HERBERT L. MORSE.

Assistants, ABBIE C. HUNT, MAY E. BERRY.

GRADUATES.

George W. Andrews.
 Charles A. Bridges.
 William C. Brooks.
 Patrick H. Beirne.
 Thomas J. Callahan.
 William C. Cavanagh.
 J. Arthur Clark.
 Joseph A. Connelly.
 Frederick W. Cook.
 George W. Creelman.
 Sears E. Condit, jun.
 Frederick W. Cummings.
 James A. Daniels.
 George F. Doherty.
 James F. Flynn.
 William E. Goss.
 Timothy F. Goulding.
 Frederick Haynes.
 Henry M. Haven.
 George O. Harrington.
 Arthur F. Hutchinson.
 William J. Kaula.
 J. Edward McLean.
 Jeremiah L. Manning.
 Edward F. Roche.
 Robert C. Sanborn.
 Allen E. Shannon.
 John Percival Sylvester.
 Herbert L. Tuttle.
 Albert H. Vickers.
 William F. Young.

 Mabel G. Barnes.
 Emily F. Barton.

Grace L. Boyden.
 Maud P. Brackett.
 Miriam Cavanagh.
 Julia A. Cooney.
 Ellen E. Crowe.
 May G. Canfield.
 Nellie F. Daly.
 Fannie M. R. Douthart.
 Sarah A. Davis.
 Minnie H. Eastman.
 Gertrude L. Folan.
 Alida B. Goucher.
 Mabel E. Guild.
 Viana L. Glass.
 Bozenka A. Haderbolets.
 Jessie A. Handley.
 Emma L. Ireland.
 Bertha F. Jones.
 Lillian F. Lansing.
 Laura L. Leighton.
 Lillian T. Maguire.
 Gertrude H. Miller.
 Mabel M. McKenzie.
 Mirion H. Milner.
 Mary G. Norton.
 Adalaide E. Opper.
 Lydia Spencer.
 A. Maud Spry.
 Effie K. Stevens.
 Margaret E. Sheridan.
 Edith A. Tilden.
 Viola M. Towle.
 Olive C. Waining.
 Mabel P. Warner.

 PRESCOTT SCHOOL.

DISTRICT COMMITTEE.

S. NEWTON CUTLER. HORACE C. WHITE. J. HASKELL BUTLER.

Principal, G. A. SOUTHWORTH. *Assistant*, ANNA M. BATES.

GRADUATES.

Burton N. F. Bush.	Maud R. Connolly.
Fred R. Curtis.	Annie L. Daley.
Frank C. Dowd.	Florence N. Day.
Irving J. Enslin.	Lizzie E. Doe.
Henry B. Going.	Annie D. Dutcher.
Arthur E. Ham.	Lizzie H. Dutcher.
Frank B. Harmon.	Lena A. Dyer.
Jeremiah E. Higgins.	Florence E. Forrester.
Samuel E. Hopkins.	Leona M. Goodspeed.
John H. Kelley.	Henrietta Harper.
William R. Kenny.	Mabelle W. Houghton.
Daniel F. McAdams.	Cora C. Howes.
Peter S. McAdams.	Fannie C. Jenkins.
Frank W. Merriman.	Louise M. Jones.
Thomas F. Naugler.	Edna M. Kelley.
Franklin O. Poole.	Lillian T. King.
Charles F. Porter.	Lizzie A. Lauriat.
Asa B. Prichard.	Clara P. Marshall.
William F. Remick.	Ida M. Rich.
Frank D. Sanborn.	Mabel J. Story.
F. Irving Sewall.	Marion K. Story.
James S. Snow.	Lucy E. Thacher.
Nathaniel W. Tucker.	Annie L. Titus.
	Georgietta C. A. Walker.
Olive R. Brackett.	Leora M. Wannamaker.
Mabel W. Brown.	Mary F. Wield.
Grace L. Cate.	

 MORSE SCHOOL.

DISTRICT COMMITTEE.

MARTIN W. CARR. BENJAMIN G. BROWN. HORACE P. MAKECHNIE.

Principal, HORATIO D. NEWTON. *Assistant*, MINA J. WENDELL.

GRADUATES.

Francis D. Carr.	John W. Harford.
Wilfred J. Doyle.	Harry B. Hayward.
John W. Eklof.	William L. Hill.

James W. Hyson.
 John F. Lynch.
 Felix F. McGirr.
 William M. Miley.
 Edward Mink.
 Herbert Raymond Morton.
 Philip J. Purcell.
 Harry F. Reitenbach.
 Frederick L. Richards.
 Stephen D. Salmon.
 Lewis H. Shephard.
 Ira Andrew Smith.
 John C. Spring.
 Rupert Bligh Telfer.
 Edmund A. Wellington.

Linnet Blanche Baker.
 Elizabeth Gertrude Buckley.
 Ella Louise Daniels.
 Carrie Gertrude Day.
 Ada Frances Fellows.
 Annie C. Garde.
 Frances Olive Gilson.
 Hattie B. Harrington.
 Grace Anna Hitchcock.
 A. Louise Hoffses.
 Myra W. Hunnewell.
 Myrtie M. Hutchinson.
 Gertrude G. Kendall.
 Ella Velina Pearson.
 Elizabeth Hogarth Swann.
 Maude R. Vanderslice.

HIGHLAND SCHOOL.

DISTRICT COMMITTEE.

HORACE P. MAKECHNIE. BENJAMIN G. BROWN. MARTIN W. CARR.

Principal, GEORGE E. NICHOLS. *Assistant*, LILLA A. HAYWARD.

GRADUATES.

Warren H. Beckley.
 Maurice L. Davis.
 Frank L. Eastman.
 Daniel F. Fitz.
 Edward M. Jouett.
 Harlan B. Kimball.
 Albert J. Kretschmar.
 J. Edwin Lacount.
 Harry S. Paige.
 Henry Sander.
 Frank G. Trott.
 William R. Whitehorn.
 Stephen C. Wood.
 Jared S. Wood.
 Prescott A. Warren.

 Etta R. Atwell.
 Esther S. Bailey.
 Margaret F. Berton.

Myrtle M. Bruorton.
 Josephine C. Bray.
 Grace E. Dunklee.
 Bertha L. Dillaway.
 Luella M. Eaton.
 Grace E. Hayward.
 Mabelle B. Huckins.
 Nancy E. Merrill.
 Grace T. Merritt.
 Estella C. Mann.
 Eva A. Ross.
 Elizabeth B. Scofield.
 Josephine Smith.
 Alice M. Stoddard.
 Julia A. Sweeney.
 Emma L. Stevens.
 Minnie L. White.
 B. Viola Wilcox.
 Lilla M. Wilcox.

FORSTER SCHOOL.

DISTRICT COMMITTEE.

NORMAN W. BINGHAM. QUINCY E. DICKERMAN. WILLIAM P. HILL.

Principal, JOHN S. HAYES. *Assistant*, MARY E. NORTHUP.

GRADUATES.

Norman W. Bingham, jun.	Mary A. Cain.
S. Boyd Darling.	Betty Goldsmith.
Thomas M. Ducey.	Leonie M. Hollis.
William A. Dykeman.	Emma L. Huse.
Fred Haley.	Nellie F. Litchfield.
Charles J. Houghton.	Mabel E. Mansir.
William Arthur Lincoln.	Viola B. Miles.
Louis M. Martin.	Annie F. Mullin.
Harry N. Pillsbury.	Katie E. Murley.
C. Eugene Record.	Lilian H. Nickerson.
Dennis S. Sullivan.	F. Mabel Norcross.
Herman A. Savage.	Annie J. Osgood.
William O. Woodberry.	Ella L. Raymond.
	Alice L. Richardson.
	Miriam Louise Woodberry.

The number graduated was 221, — being 28 in excess of the number graduated last year, — boys, 103 ; girls, 118.

From the L. V. Bell School,	67 : boys, 31 ; girls, 36.
“ “ Prescott	“ 52 : boys, 23 ; girls, 29.
“ “ Morse	“ 37 : boys, 21 ; girls, 16.
“ “ Highland	“ 37 : boys, 15 ; girls, 22.
“ “ Forster	“ 28 : boys, 13 ; girls, 15.

One hundred and forty-six of the grammar school graduates entered the high school in September : boys, 55 ; girls, 91.

From the L. V. Bell School,	42 : boys, 16 ; girls, 26.
“ “ Highland	“ 31 : boys, 10 ; girls, 21.
“ “ Prescott	“ 28 : boys, 10 ; girls, 18.
“ “ Morse	“ 26 : boys, 13 ; girls, 13.
“ “ Forster	“ 19 : boys, 6 ; girls, 13.

Number promoted to the first class in June,	275.	Per cent	96.4.
“ “ “ “ second “ “ “	348.	“ “	95.1.
“ “ “ “ third “ “ “	428.	“ “	91.8.
“ “ “ “ fourth “ “ “	426.	“ “	92.2.
“ “ “ “ fifth “ “ “	556.	“ “	88.1.
“ “ “ “ sixth “ “ “	549.	“ “	91.3.

Ninety-three per cent of all pupils in the grammar schools were promoted in June.

EXHIBIT OF THE GRAMMAR SCHOOLS.

SCHOOLS.	TEACHERS.	Average Whole No.	Average Attendance.	Per Cent of Attendance.	Tardinesses.	Dismissals.
Prescott . . .	G. A. Southworth . . .	58.6	56.9	97.1	4	3
“ . . .	Adelaide Reed . . .	35.7	34.2	95.7	1	7
“ . . .	A. C. Hudson . . .	34.1	33.1	97.1	1	5
“ . . .	E. M. Cate . . .	43.5	41.5	93.1	7	4
“ . . .	A. A. Anderson . . .	42.3	40.8	96.4	0	7
“ . . .	A. I. Sears . . .	50.7	48.4	95.6	6	22
“ . . .	C. T. Brown . . .	53.1	49.1	92.5	6	17
“ . . .	Clara Taylor . . .	48.9	45.8	93.6	5	14
Edgerly . . .	F. P. Hudson . . .	39.8	38.7	97.0	3	8
“ . . .	L. J. Pike . . .	42.4	40.4	95.4	5	11
“ . . .	H. M. Pierce . . .	51.3	48.9	95.4	4	15
“ . . .	F. F. Fuller . . .	51.0	48.7	95.5	10	17
Davis . . .	L. A. Burns . . .	41.0	39.3	96.0	10	24
L. V. Bell . . .	H. L. Morse . . .	34.0	32.5	95.5	23	22
“ . . .	H. L. Morse . . .	34.6	33.9	97.8	2	15
“ . . .	H. E. Adams . . .	53.2	51.3	96.4	22	52
“ . . .	L. M. Walton . . .	44.5	42.4	95.3	47	33
“ . . .	E. M. Gooding . . .	46.3	44.2	95.4	28	25
“ . . .	E. F. Schuh . . .	48.1	46.2	96.0	12	24
“ . . .	A. M. Wight . . .	46.0	44.2	96.1	36	25
“ . . .	F. A. Wilder . . .	49.6	47.9	96.4	6	10
“ . . .	N. A. Hamblin . . .	52.1	48.0	92.1	30	22
“ . . .	A. I. Norcross . . .	53.0	50.0	94.3	59	54
“ . . .	N. A. Knowlton . . .	53.2	50.3	94.6	26	30
Cummings . . .	L. J. Page . . .	50.0	47.8	95.6	29	17
Prospect Hill . . .	Helen Tincker . . .	46.5	43.5	93.5	14	5
“ “ . . .	S. A. Tuttle . . .	47.2	44.4	94.1	14	37
“ “ . . .	Ellen Ledyard . . .	55.0	51.8	94.2	17	43
Brastow . . .	Maria Miller . . .	40.1	38.2	95.1	21	34
Bennett . . .	M. B. Smith . . .	40.4	36.4	90.1	61	94
Jackson . . .	A. E. McCarty . . .	35.0	32.7	93.4	49	45
Webster . . .	C. E. Cobb . . .	31.0	28.4	91.6	28	17

EXHIBIT OF THE GRAMMAR SCHOOLS — *Concluded.*

SCHOOLS.	TEACHERS.	Average Whole No.	Average Attendance.	Per Cent of Attendance.	Tardinesses.	Dismissals.
Forster . . .	J. S. Hayes . . .	32.9	32.0	97.2	0	9
" . . .	M. E. Stiles . . .	43.3	41.5	96.0	2	13
" . . .	M. S. Murch . . .	43.6	41.7	95.7	2	11
" . . .	M. L. Wentworth . .	37.5	35.4	94.5	3	10
" . . .	F. M. Guptill . . .	48.7	46.0	94.4	5	11
" . . .	L. F. Clement . . .	50.0	47.4	94.7	4	16
" . . .	A. A. Batchelor . . .	50.5	47.5	94.1	11	14
" . . .	A. S. Winnek . . .	40.4	38.0	93.9	6	20
Bingham . . .	A. W. Emerson . . .	37.6	35.9	95.5	15	9
Morse . . .	H. D. Newton . . .	40.0	38.5	96.2	7	38
" . . .	Stella Hall . . .	42.1	39.7	94.2	8	43
" . . .	P. S. Downes . . .	42.1	41.3	98.3	0	6
" . . .	E. F. Gould . . .	37.9	36.2	95.5	15	26
" . . .	A. E. Sawyer . . .	41.0	38.9	94.6	29	34
" . . .	M. A. Haley . . .	55.0	52.3	95.5	33	32
Franklin . . .	H. A. Hills . . .	34.4	32.4	94.2	33	25
" . . .	E. C. Summerhayes .	39.8	37.2	93.4	54	11
Burns . . .	L. J. Brooks . . .	41.9	40.3	96.2	22	13
" . . .	M. S. Turner . . .	35.4	32.9	92.8	24	36
Highland . . .	G. E. Nichols . . .	51.5	49.4	96.0	0	63
" . . .	H. B. Sargent . . .	52.2	49.0	93.9	9	72
" . . .	F. N. Robbins . . .	46.1	43.1	93.6	6	43
" . . .	S. A. Blood . . .	45.8	43.6	95.3	12	46
" . . .	A. R. Cox . . .	42.1	39.5	94.0	18	79
" . . .	J. C. Frazier . . .	46.4	43.6	94.7	17	26
Lincoln . . .	H. A. P. Roth . . .	35.3	33.4	94.6	25	37
" . . .	P. A. Osgood . . .	45.2	43.1	95.3	7	49
		2,610.9	2,479.7	94.9	953	1550

HIGH SCHOOL.

The first high-school house was dedicated April 29, 1852, and occupied by the school, consisting of sixty-one pupils, May 3, 1852. The second story of that building accommodated the school fifteen years, the first story being used, during those years, for town purposes. In 1867, the entire building was applied to the exclusive use of the school.

When Mr. Babcock became principal of the school in August, 1859, it contained forty-three pupils. The course of study required three years. No pupils had been prepared for college, and there had been no graduation of those who had completed the course. In 1860 a four-years' course was adopted, and in 1862

a class consisting of six persons was graduated, and diplomas were awarded. In September, 1867, the year in which Mr. Babcock resigned and Mr. Baxter became principal of the school, it contained one hundred and nineteen pupils.

The school held its last session in the old building Feb. 27, 1872, and its first in the new March 4, 1872, at which time it contained one hundred and fifty pupils.

The following shows the average whole number of pupils each year since the school entered the new building :—

In 1872	151	In 1880	224
“ 1873	171	“ 1881	237
“ 1874	167	“ 1882	247
“ 1875	190	“ 1883	261
“ 1876	206	“ 1884	273
“ 1877	209	“ 1885	320
“ 1878	219	“ 1886	350
“ 1879	227	“ 1887	350

Twenty-six hundred and ninety-seven persons have been connected with the high school, as pupils, during the thirty-five years of its continuance, and seven hundred and twenty-two have received diplomas of graduation.

Whole number of different pupils during the year . . .	518
Largest number at one time	387
Number admitted during the year	160
“ from our grammar schools	146
“ from other schools	14
“ graduated	56
“ of graduates who entered college	14
“ of graduates who entered Institute of Technology . .	1
“ who have left the school during the year, exclusive of graduates	87
Whole number at the present time	375
Average number to a teacher	36
Number over fifteen years of age	340
“ in course preparatory to college	108
“ pursuing the regular course	197
Number pursuing the English course	70
“ in the first class on entering the school	122

Number at the present time	. . . . .	58
“ in the second class on entering the school	. . . . .	170
“ at the present time.	. . . . .	72
“ in the third class on entering the school	. . . . .	140
“ at the present time.	. . . . .	104
“ in the fourth class on entering the school	. . . . .	149
“ at the present time	. . . . .	141

THIRTY-FIFTH ANNUAL EXHIBITION OF THE SOMERVILLE
HIGH SCHOOL, TUESDAY, JUNE 28, 1887.

ORDER OF EXERCISES.

SINGING.*—FOUR-PART SONG: “The Stars are shining in
Heaven.” *Rheinberger.*

1. SALULATORY IN LATIN. JAMES P. MCADAMS.
2. ESSAY. *Hobbies and Their Riders.* MARY E. BRADLEY.
3. READING. Harmony Chime. *Marie B. Williams.*
EMMA F. WILKINS.

SINGING.—TRIO (in canon): “William Tell.” *Rossini.*
SPINNING-WHEEL CHORUS. (Female voices.) *Wagner.*
(With orchestra.)

4. READING. Fourth of July at Jonesville. *Marietta Holley.*
EVANGELINE F. HOUGHTON.
5. Das Späte Nachhausekommen.
CAROLINE E. DENSMORE. NELLIE C. HOPKINS.
ALLICE KENNY.

6. READING. How Christmas came to Simpson’s Bar. *Bret Harte.*
GEORGE STEPHENS.

SINGING.—SOLO: “In questo semplace.” *Donizetti.*
SOLO AND CHORUS: Sanctus. *Gounod.*
(With orchestra and organ.)

7. ESSAY. *A Bunch of Rusty Keys.* ANNIE E. BOARDMAN.
8. READING. The Overflow. *Caroline Southey.*
CARRIE A. RAYMOND.

9. FROM “MIDSUMMER NIGHT’S DREAM.” Original
version in Greek.

FRANK H. HITCHCOCK,	JANE R. CUTLER,
ARTHUR C. HOLT,	ELLA F. ELLIOT,
WILLIAM P. JONES,	LILLYE T. LEWIS,
DANIEL RICHARDS, Jun.,	GEORGE L. NORTH,
JOSEPH L. RUBEL,	ANNA A. PICKENS,
JOHN D. SPENCE,	JOSIE L. PRESTON.

* Singing accompanied by Hadley’s Orchestra.

RECESS.

MUSIC. — POTPOURRI: RUDDYGORE.

Sullivan.

(Instrumentation by Master Henry K. Hadley.)

SINGING. — HYMN FOR SOPRANO AND CHORUS: "Hear
my Prayer."*Mendelssohn.*

(With orchestra.)

10. ESSAY. *Condensation.*

GRACE H. DICKERMAN.

11. BULLES DE SAVON.

ALICE G. BAILEY,
EDITH L. BOYDEN,
ALICE E. COLBURN,
BERTHA W. EGIN,
SUSIE E. FARRINGTON,
JANE M. HORNER,GERTRUDE M. JOUETT,
FRANCES M. SEYMOUR,
ELLEN F. SHERIDAN,
MARTHA G. SIAS,
WALTER B. GOODING,
SANFORD JOYCE,

WILBUR D. MERRILL.

12. READING. The Chariot Race.

Lew Wallace.

ELLA G. WORDEN.

13. POEM. *The Modern Knight.*

MAY U. GRIFFIN.

SINGING. — Twenty-third Psalm.

Schubert.

(Young ladies of the graduating class.)

SOLO AND CHORUS: "Hail, Lovely Venice."

Donizetti.

(Instrumentation by S. Henry Hadley.)

14. CERTAMEN.

Virgil.

FRED A. HUNTRESS.

15. PROPHECIES.

GEORGE A. WRIGHT.

16. VALEDICTORY.

MABEL E. NICKERSON.

17. PRESENTATION OF DIPLOMAS. BY MAYOR MARK F. BURNS.

18. PARTING HYMN.

WORDS BY HANNAH DEMERITT. MUSIC BY ALICE G. BAILEY.

MEMBERS OF THE GRADUATING CLASS.

Alice Griswold Bailey.
Edith Louise Boyden.
Mary Ellen Bradley.
Minnie Elizabeth Buckley.
Genevieve Hattie Chase.
Alice Eleanor Colburn.
* Bertha Adams Conant.
Hannah Demeritt.
Caroline Eaton Densmore.
Grace Harris Dickerman.
Bertha Wilhelmina Egin.
Susie Evelyn Farrington.
Margaret Gordon.May Usher Griffin.
Nellie Clayton Hopkins.
Jane Marian Horner.
* Evangeline Florence Houghton.
Gertrude Madora Jouett.
Allice Kenny.
Edith Louise Munroe.
Mary Frances Nagle.
Mabel Elsie Nickerson.
Annie Mabel Parsons.
Carrie Alice Raymond.
Mabel Ethelyn Rich.
* Helen Matthews Rogers.

* Diploma not received on account of the omission of a study.

Frances Marion Seymour.
Ellen Frank Sheridan.
Martha Genevieve Sias.
Mary Ellen Stackpole.
Emma Florence Wilkins.
Ella Grant Worden.

Robert Burns.
Walter Barnes Gooding.
Sanford Joyce.
Wilbur David Merrill.
Joseph Little Rubel.
Emery Gault Smith.
George Stevens.
George Alvin Wright.

COURSE PREPARATORY TO COLLEGE.

Frank Henry Hitchcock.
Arthur Clark Holt.
Fred Albion Huntress.
William Preble Jones.
James Philip McAdams.
Daniel Richards, jun.
John David Spence.
Annie Evelyn Boardman.

Jane Ruth Cutler.
Ella Florence Elliot.
Lillye Theodosia Lewis.
* Ruth Dingley Loring.
Georgie Lincoln North.
Martha Celina Parsons.
Anna Augusta Pickens.
Josie Larcom Preston.

* Graduated in the *Regular* Course last year.

ATTENDANCE.

Average whole number in all the schools for the year .	5,198.2
High school	349.6
Grammar school	2,610.9
Primary schools	2,237.7
Average attendance in all the schools for the year .	4,878.5
High school	334.0
Grammar schools	2,479.7
Primary schools	2,064.8
Per cent of attendance in all the schools for the year.	93.8
High school	95.5
Grammar schools	94.9
Primary schools	92.3
Number of tardinesses in all the schools for the year .	2,699
High school	314
Grammar schools	953
Primary schools	1,432
Number of dismissals in all the schools for the year .	2,775
High school	577
Grammar schools	1,550
Primary schools	648

Irregular attendance is the crowning evil of the schools at the present time. Its effect, in lowering the standard of scholarship, preventing promotions, and retarding the progress of improvement, surpasses that of all other causes combined.

The studies for the several grades are arranged in accordance with our best judgment of the proper order of their succession, and their adaptation to the average capabilities of pupils at different stages of advancement, and upon the presumption that all the time assigned to the schools will be faithfully and studiously employed, that all principles which are fundamental will be comprehended in their order, and that all difficulties will be overcome as they occur.

Our school time is nominally forty weeks. During the present year there have been eleven holidays. In consequence of stormy weather, the high school has lost six sessions, and the grammar and primary schools eight sessions. Consequently there have been only thirty-seven weeks of actual school time. It must be apparent, therefore, that no pupil of ordinary ability can absent himself any portion of the time the schools are in session, and satisfactorily perform the work assigned.

TRUANCY.

The following is the report of the truant officer, Mr. Lemuel H. Snow, who, in the performance of his duties, has exercised commendable vigilance, discretion, and industry : —

Number of visits to the schools	696
Number of absences investigated	561
Number of cases of truancy	166
Number of different truants	115
Number of truants arrested	17
Number sent to the House of Reformation	6

The labor performed by the truant officer in the investigation of the large number of absences reported to him, and in returning to the schools with promptness those who are found to be truants, is by no means insignificant or unimportant ; but it is far from being the full measure of the value of his services to the schools, and consequently to the city. His influence in preventing absenteeism and truancy is even more important. Many pupils who would

absent themselves from school for insufficient reasons, and thereby become truants and the subjects of all the pernicious consequences that would result therefrom, are restrained by a knowledge of what would follow through the vigilance of the truant officer, and are now regular attendants of the schools and the recipients of their benefits.

Mr. Walton, agent of the Massachusetts Board of Education, in his report on school attendance and truancy, says: "A vigilant truant officer, with a co-operating police force, will make the streets and byways of a city as lonesome to a boy as the tombs of the dead, and the schoolroom, in comparison, a delight."

EVENING SCHOOLS.

The evening grammar schools which were in operation at the close of last year, were continued fourteen evenings, to Feb. 1, and the drawing school twenty-three evenings, to April 1.

Cost of instruction	.	.	.	.	.	.	.	\$344	50
Janitor's services	.	.	.	.	.	.	.	51	00
Cost of materials	.	.	.	.	.	.	.	26	00
Gas	.	.	.	.	.	.	.	75	00

Total cost of evening schools to April 1	\$496	50
--	---	---	---	---	---	---	---	-------	----

Oct. 3, an evening drawing school was opened in the high schoolhouse, and evening grammar schools in the Prescott, L. V. Bell, and Highland Schoolhouses.

Nothing calculated to render these schools profitable and attractive has been omitted. The most desirable schoolrooms in our best school buildings have been occupied by them. They have been supplied liberally with all the conveniences and appliances of the day schools. They have been in charge of the grammar masters, whose instruction has been supplemented by skilled assistants.

In order to insure, if possible, greater regularity of attendance than formerly, the parents and guardians of all applicants, under eighteen years of age, were required, at the beginning of the schools, to signify in writing their intention to have their children or wards attend them regularly and punctually during the entire term of their continuance.

Those who prized their opportunities, and have been regular in attendance and attentive to school duties, have maintained their interest to the end of the term, and have derived great benefit from their privileges ; but the majority of those who entered the several schools have shown, by their irregularity and inattention, a want of appreciation of the privileges afforded them, and, consequently, have received but little profit therefrom.

We began with an enrolment of three hundred and thirty-four, and ended with an attendance of ninety.

THE FOLLOWING IS AN EXHIBIT OF THE EVENING SCHOOLS FROM OCT. 3, TO DEC. 24, INCLUSIVE :—

SCHOOLS.	Whole No.	Average Whole No.	Average Attendance.	Per cent of Attendance.	No. of Sessions.	No. of Teachers.	Cost of Instruction.	Total Cost.
Drawing School	83	66	59	89.4	23	2	\$184 00	\$250 64
Prescott Grammar School .	125	60	44	73.3	46	5	305 00	409 00
L. V. Bell “ “ .	73	46	33	71.7	47	3	267 50	301 60
Highland “ “ .	53	42	29	69.0	47	3	258 50	342 00
Total	334	214	165	77.1	163	13	\$1,015 00	\$1,303 24

Total cost of evening schools for the year, \$1,799.74.

TEXT-BOOKS.

Since the application of the law requiring free text-books, three and one-half years have elapsed, and the city has expended for their purchase \$16,456.

Amount paid in 1884	\$7,320 00
“ “ “ 1885	3,879 00
“ “ “ 1886	2,322 00
“ “ “ 1887	2,935 00
Total amount	\$16,456 00
For the high school	\$3,516 00
“ “ grammar and primary schools	12,759 00
“ “ evening schools	181 00
	\$16,456 00

The books are used with much care by teachers and pupils. Pupils are more careful of city books than they were of their own.

It is apparent from the great difference in the amounts expended for books in different years thus far, that sufficient time has not elapsed to furnish data for determining, with any degree of accuracy, what will be their average annual cost.

MUSIC.

In all the grades, one hour a week is devoted to the study and practice of music, which has been a regular branch of instruction in our schools for nearly thirty years. For the last twenty years, it has been under the direction of Mr. S. Henry Hadley, whose instruction has been ably and successfully supplemented by the regular teachers. Mr. Hadley, by his enthusiasm, and rare ability and skill as a teacher, has ever sustained a commendable interest in this important branch of instruction.

The following represents, substantially, the work accomplished in the high school and the several grammar schools:—

The sixth class learn notation, the rudiments of music, the chromatic scales, and sing two-part songs in the Second National Music Reader. The fifth class learn the transposition of the scales, and sing in all the keys. The fourth class finish the Second Reader, sing three-part songs in the Third Reader, and learn thoroughly all the keys. The third class finish the Third Reader, begin the Fourth Reader, and learn the bass clef and the minor scales. The second class continue the Fourth Reader, practise solfeggios in treble and bass clefs, and sing in three and four parts. The first class finish the Fourth Reader, and sing any ordinary tunes in three and four parts.

In the High School, the practice of singing by note is discontinued, and pupils sing at sight the tunes contained in the Fifth, or high school, Music Reader, which contains music of the highest order from the best masters.

DRAWING.

One-twentieth of school time is devoted to this branch of instruction. The average annual cost, including instruction, drawing-books, and pencils, is about \$4,700. No material change has been made in the course of instruction since the introduction of

White's drawing-books, six years ago. Instruction and practice are confined mainly to designs for flat surfaces, as geometrical forms and their combinations; natural forms, as leaves, flowers, etc.; and historic designs.

For the last twelve years, the graduates of the several grammar schools have prepared, during the month of June, specimens of their writing and drawing. These specimens have been bound each year, and are the property of the schools to which the graduates belonged, and have proved a healthful incentive to succeeding classes.

It will be seen, by a careful examination of these books, that excellent results are obtained within the limited range outlined by the system of drawing used in our schools; but the work of succeeding years exhibits no decided advancement. More extended practice is desired, and, if possible, should be secured, in the representation of solid form, and in freehand drawing from objects.

DISCIPLINE.

Satisfactory order is maintained in all the schools; and the methods pursued, by most teachers, to secure it, are commendable. No case of corporal punishment has occurred in sixteen schools during the year; twelve teachers report one case each; seven, two cases each; and eleven, three cases each. The average number of punishments to a school, in seventy-five schools, for the year, is three and six-tenths. Pro rata, the number of punishments in all the schools this year is only twenty-five per cent of the number reported in 1874.

This marked decrease in the amount of corporal punishment in the schools, is most gratifying evidence of decided improvement in the art of school management.

The school is a commonwealth in miniature. The teacher embodies the three departments of government,—the legislative, the judicial, and the executive. He is limited by the school regulations, and is amenable to popular sentiment; but, with these restrictions, his power in the schoolroom is absolute. The offending pupil has neither advocate nor opportunity for appeal, but is powerless before the tribunal of the school. In view of this disparity, the teacher should exercise, at all times, great discretion and clemency.

Children cherish no resentment, but are keenly sensitive to injustice, and ever retain the remembrance of it. In our treatment of them we should be regardful of their claims, ever keep in mind the possibilities of their future, and pursue towards them a course which the judgment of their mature years will commend. We should labor to encourage and strengthen self-confidence and self-respect. Under no provocation should we give utterance to expressions that would tend to degrade the child in his own estimation or that of his associates.

If we interpret the signs of the times aright, the children of this generation, ere their life-work is completed, will have occasion for all the strength and moral courage God has given them. By no word or act of ours would we deduct an iota therefrom.

INDUSTRIAL EDUCATION.

At no period of its existence has the public-school system been so perfect in all particulars as at the present time. Commodious and beautiful school buildings, furnished with every needed comfort and convenience, abound in every city, and in nearly all the towns, of the commonwealth. Text-books, stationery, and whatever is essential to successful school work are liberally supplied at public cost. Facilities for obtaining an education are so ample, teachers, as a rule, are more fully equipped for their important and responsible duties at the present time than at any former period. Opportunities for improvement in the art of teaching and of school management are abundant. Books and periodicals containing the mature thoughts of the most eminent educators, past and present, upon all subjects pertaining to the duties of teachers, abound. As a consequence, the schools of the present time exhibit commendable advances in many of the grand essentials of excellence. The art of governing by moral influences is better understood and more generally practised than formerly. Disorderly conduct and recourse to corporal punishment are events of rare occurrence. There is much less of tardiness and absenteeism than formerly. Pupils remain longer in school, and the number of graduates is constantly increasing. Improved methods of instruction are pursued, and a higher order of scholarship is obtained.

And yet, notwithstanding these substantial improvements, the schools of the present time are more sharply criticised, and dis-

satisfaction in regard to them is more wide-spread and pronounced than at any former period.

With these statements in mind, the following questions naturally arise: "What has caused this sudden and general dissatisfaction?" "Why is it that our school system, heretofore our boast; the common schools, free to every child; the public high schools, with the State universities crowning the system of free public education, and open to all, — are now called in question in the very communities that have most earnestly fostered them?"

Prominent among the causes which have contributed to these results, are the changes which have been wrought in our social condition in recent years, and the failure of the schools to meet the demands incident thereto.

No unvarying system of education, however excellent, can meet the necessities of different communities at the same time, or of the same community at all times. It is evident, therefore, that systems of instruction and training must change with the ever-varying conditions of society; otherwise, they will fail to meet the requirements of communities, and, consequently, incur criticisms and dissatisfaction.

Just now we are passing through a transition period. The old order of things has passed away, and new conditions, with their numerous demands are upon us, and we are not fully prepared to meet them.

A very large proportion of our pupils will be obliged to rely upon their own labor to make their way in life. Formerly the education of the schools, though much more elementary in character and limited in extent than that received by the young of the present day, was supplemented by the apprentice system, — a system founded and fostered by the conviction that every person should be furnished with the needful qualifications for maintaining himself in honest independence. But the extensive application of machinery to the mechanic arts, and the consequent minute division of labor, have superseded the apprentice system, and, as yet, no sufficient equivalent has been substituted therefor. Hence it has come to pass that the equipment which the youth of the present generation are receiving through the education of the public schools, which is mainly intellectual, is altogether inadequate to present demands.

I. Edwards Clarke, A.M., in his report to the Bureau of Educa-

ion on "American Education in Fine and Industrial Art," says: —

"The present school system ignores the productive faculties of man. The education given to pupils is so utterly one-sided and narrow, they go out into the world to enter the struggle of life with only a few of their faculties developed by school training. Their very education limits them to a narrow range of occupations; and the very abundance of schools each year graduating similarly trained pupils makes it harder for each one to earn a living, because the numbers seeking and fitted for the particular employments are annually increased, while there is no relative increase in the need for workers in these employments."

Communities are demanding that the public schools supply not only what was formerly furnished by the apprentice system, but also such additional industrial and art training as the exigencies of the times require. Fortunately, our school system has great flexibility. It has proved adequate to the necessities of every section of our country in all former periods of its history, and doubtless will be found equal to present demands, when sufficient time has elapsed for re-adjustment.

In what manner and to what extent industrial education shall be pursued in the public schools is a leading problem at the present time, and its solution is occupying the thoughts of many educators in all sections of the country. Already industrial schools, schools of technology, and normal art schools are in successful operation. Drawing is a legal requirement of the schools. Evening drawing schools are rapidly multiplying. Sewing is successfully taught in many schools, and without detriment to the regular intellectual requirements. In several cities facilities are afforded for acquiring the skill requisite for various mechanic arts.

In view of the attendant cost, prudence may restrain us from entering the list of experimenters in this regard; but we may safely predict that, in the future, as in the past, our city will not be remiss in promptly adopting whatever commends itself as promotive of the public welfare.

RETROSPECTIVE.

The following table shows the growth of the city in the last twenty-five years : —

	1862.	1887.
Population	8,550	About 33,000
Valuation	\$5,760,000 00	\$27,469,300 00
Estimated value of school property . . .	66,650 00	428,554 00
Persons between five and fifteen years of age.	1,851	5,722
Number of schools	29	108
Number of teachers	30	123

The interesting history of our schools is an assurance of their future prosperity. Hitherto they have uniformly maintained a commendable and honorable position in the front ranks of the best in the commonwealth. Our citizens have ever shown their high appreciation of the importance of education by their generous support of whatever is promotive of the intellectual and moral elevation of the community. Those to whom public interests have been intrusted, have entertained liberal sentiments, and pursued a generous policy in regard to all matters of general interest and utility.

The members of successive school boards have guarded with vigilance the important interests committed to their guidance, and have labored with fidelity to meet their responsibilities, and to adapt the schools to the requirements and necessities of the community. Pursuing a conservative but progressive course, they have combined and applied the best of the past and present, and have promptly adopted new methods whenever their superiority was apparent, but have wasted none of the valuable time of the schools in experimenting upon schemes of doubtful utility.

While earnestly engaged in promoting intellectual culture, and in preparing pupils to perform successfully their life work, they have not been unmindful of the more important duty of inculcating principles of morality and virtue, of laying the foundation of worthy character, and of fostering aspirations to noble manhood. Believing, however, that the teaching in schools maintained at public cost should be entirely free from all sectarian bias, they

have scrupulously guarded against the introduction of any instruction favorable or adverse to the tenets of any religious sect, and have confined their teaching to those principles of morality concerning which all religious denominations are in harmony.

Since the public schools are the most important and effective agency yet devised for the dissemination of intelligence and virtue, upon which our free institutions and all the blessings accruing therefrom must depend for their perpetuity, constant and untiring vigilance should be exercised to divest them of whatever may excite reasonable objections, and all available means should be employed to render them worthy of the confidence and support of all considerate citizens.

PERSONAL.

My connection with the schools of Somerville began with March, 1863, and will end with February, 1888. For the first nine of these twenty-five years it was my privilege to be a member of the school board, and for the last twenty-two years I have been its secretary, and the superintendent of the public schools. During this period I have been associated with seventy-nine gentlemen and two ladies who have been members of the school committee, three hundred and twenty teachers, and about fifteen thousand pupils of the public schools. From all of these I have uniformly received great kindness and courtesy, and to them all I extend my warmest thanks and kindest regards. The remembrance that nothing has transpired in all these years to disturb the harmony or mar the pleasure of our intercourse will ever afford the purest satisfaction.

Respectfully submitted,

J. H. DAVIS,

Superintendent of Public Schools.

SOMERVILLE, Dec. 23, 1887.

REPORT

OF THE

SOMERVILLE MYSTIC WATER BOARD.

CITY OF SOMERVILLE.

IN BOARD OF MAYOR AND ALDERMEN, Feb. 21, 1888 .

Referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, *Clerk pro tem.*

IN COMMON COUNCIL, Feb. 23, 1888.

Concurred in.

CHAS. S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

To his Honor the Mayor and the City Council.

GENTLEMEN, — Two things have kept the Water Department very busy during 1887, — the large amount of building that has been done in the city, and the frequent breaks and necessary repairs of the old mains.

An unusually large number of new buildings was erected in Somerville last year, and the demands for extension of the water service were, consequently, numerous. Owing to lack of money to do the work, not all of these applications could be granted. The Water Department, however, has laid nearly 10,000 feet of new mains, to accommodate new buildings on streets where no mains existed; and 370 new services have been put in, using 13,867 feet of pipe, at a cost to the applicants of \$6,718.77, an average cost of \$18.16 for each service. The whole number of services in the city now is 4,996. There are 52 miles of mains, and 32 miles of service pipe. Owing to the lack of funds for the extension of the service, the new mains have been laid only in those streets where they were practically indispensable; and the money applied to their cost will pay a large return upon the investment.

In addition to the work mentioned, 3,652 feet of the old, worn-out cement pipe have been taken up, and replaced with iron mains; 27 new fire hydrants have been set; 38 new gates have been put in; and leaks and breaks in the mains to the unusual number of 83 have been repaired. For maintenance and construction together, the department has used about \$25,000; and so great have been the requirements of the year, that even with this large amount, it has been possible to do only a very small part of the much-needed re-laying of old and worn-out mains. The numerous demands for extension of the service, and the constantly and rapidly increasing number of breaks and repairs on the old cement mains, have taken much money that ought to have been available for re-laying the old mains; and that, if it had been so applied, would have been well invested. The number of breaks last year was 83, compared with 50 breaks the year before, — more than

should occur in five years, if the pipes were in even fair condition. In other words, the repair account of the department is necessarily five times greater than it should be under proper conditions. The attention of the City Council has been annually called to the insecure and dangerous state of affairs. The old pipes are growing more and more rotten every year; and we feel that it is our duty to urge again, and more forcibly than ever, the importance of making the necessary appropriation to re-lay, at least, enough to reduce the number of breaks, to lessen the repair account, and to make the city safe from fire, and the annoyance of having the water shut off without notice at unseasonable times. Economy and safety demand that all these old cement mains shall be at once re-laid with iron pipe. With an ordinary appropriation, a large part of which must be devoted to extension of the service, the work cannot be done. What is needed is an appropriation which can be devoted wholly to the maintenance and improvement of the service, and an additional appropriation, which can be charged to construction account, and devoted wholly to the laying of new mains, wherever the erection of new dwellings and other buildings causes them to be demanded.

For some years past, the Water Department has had no construction account. The money appropriated has had to be devoted both to construction and to maintenance; and the consequence has been that the department has been hampered in its work, and has found it hard to accomplish its endeavor to divide the appropriation fairly, and to apply it for the best advantage of the city. In his recent inaugural address, the Mayor, after speaking of the necessity of re-laying the old mains, recommends that the needs of the department be supplied by borrowing on the city's funded debt account the money required for the extension of the water works. The Water Board fully believes in the wisdom of this recommendation of the Mayor, and earnestly hopes that it will be adopted by the City Council. The money so borrowed will draw interest until it is applied to construction; and when it is so applied, not only will a permanent and valuable improvement be accomplished, but the money will be invested in a way that will bring in large immediate returns to the city. The extension of the water mains, beside adding to the convenience and security of the people, always pays a large return upon the investment. In some cases, the whole cost of new mains has been wholly re-

paid to the city in water rates within a very few years. If the Mayor's suggestion is adopted, the usual appropriation can be advantageously devoted to the maintenance of the service, including the re-laying of the rotten and expensive cement pipes; and the new water loan can be used for the much-needed extension of the system.

In addition to these improvements, — which should be made at once, — there are certain other improvements which need to be made at an early day; such as connecting dead ends of pipes, so that the water may be kept clean, and a free circulation insured; continuing the ten-inch main on Highland Avenue from the Brastow Hose House to Central Street, as shown on the original plan of the water works; and furnishing a high service for the more elevated portions of the city. These improvements should be made before long; but we regard the safety of the city as our first duty. Until the worn-out pipes are replaced, none of these useful improvements should be undertaken.

The members of the Water Board feel that one reason why the City Council should be liberal in its appropriation for the department, is the direct advantage to the city resulting from the favorable water contract made with the city of Boston two years ago. Instead of \$18,000, as was estimated, \$21,000 was saved to the city by the operation of this contract the first year; and, with the increased number of water takers, the saving will be increased to more than \$23,000 during 1888. The income to the city from this department is steadily increasing year by year. The laying of new mains is a permanent improvement, which ought not to be paid for altogether now. It seems only right, therefore, that the needed extension of the water works should be provided for by a special loan, and that the income of the department shall be largely applied to the maintenance and necessary repairs of the existing system.

A detailed statement of the work and condition of the department is given in the appended report of the Superintendent, Mr. Nathaniel Dennett, whose useful service the Water Board again wishes to commend.

J. O. HAYDEN.
WALTER S. BARNES.
CHARLES H. BROWN.
JOHN B. VIALL.

SUPERINTENDENT'S REPORT.

To the Somerville Mystic Water Board.

GENTLEMEN, — Following is a report of the operations of the Somerville Mystic Water Works during the year ending Dec. 31, 1887, together with an inventory of all tools and apparatus owned by the Water Department, stock on hand, etc. : —

DISTRIBUTION MAINS.

These were extended 9,889 feet, 3 inches, or 1 mile, 4,609 feet ; making the total length in the city 52 miles, 747 feet. There were re-laid 3,652 feet of cast-iron pipe in place of that quantity of cement-lined pipe.

There were 83 breaks and leaks on mains during the year, in repairing which the following named quantities and sizes of pipe were used ; viz., 35 feet of 8-inch, 194 feet of 6-inch, and 140 feet of 4-inch.

The old cement-lined pipe continues to be a source of great trouble and expense, on account of frequent bursts ; and I recommend that the following named streets be re-laid with cast-iron pipe of the sizes specified, during the coming year : —

Beacon Street, for a distance of about 4,256 feet, with 6-inch pipe.

Prospect Street, from Somerville Avenue to Prospect Place, about 453 feet, with 6-inch pipe.

Everett Street, from Prospect Street to Webster Avenue, about 468 feet, with 4-inch pipe.

Emerson Street, from Everett Street to Newton Street, about 200 feet, with 4-inch pipe.

Bow Street, from the end of the iron pipe opposite Summer Street, through Bow Street to Somerville Avenue, about 760 feet of 8-inch pipe, with iron connections for Summer and Walnut Streets and Warren Avenue.

Warren Avenue, from Bow Street to Columbus Avenue, about 716 feet, with 6-inch pipe.

Washington Street, from opposite the drinking-fountain in Union Square to Bow Street, about 880 feet, with 8-inch pipe.

Vinal Avenue, from Highland Avenue to Pleasant Avenue, and a portion of Vinal Avenue to connect with the pipe laid in Summer Street a few years ago, about 970 feet, with 6-inch pipe.

School Street, from the iron pipe in Summer Street, to connect at Somerville Avenue, about 980 feet, with 6-inch pipe.

Medford Street, from Somerville Avenue to East Cambridge line, about 1,570 feet of 8-inch pipe.

Sacramento Street, from Beacon Street to Somerville Avenue, passing under the Fitchburg Railroad, about 471 feet of 6-inch pipe.

The pipe in Somerville Avenue, between Medford Street and Union Square at Washington Street, — a distance of about 1,970 feet, — is entirely unreliable, and should receive the earliest possible attention. Breaks on this line are the more productive of inconvenience to water takers, since they affect Allen, Linden and Merriam Streets, the pipe in each of which has a dead end.

A distance of about 436 feet should also be re-laid with 6-inch pipe in Washington Street, from Union Square to Hawkins Street, and from that point, about 368 feet of 6-inch pipe should be re-laid in Hawkins Street, to connect with Somerville Avenue.

The pipe in the two streets last named is now but 3 inches in size, and is entirely inadequate for this thickly-settled neighborhood, especially in case of fire.

Lake Street — formerly Hawkins Court — should be re-laid with about 415 feet of 6-inch pipe.

I especially recommend the connection of the dead end on Preston Street with the iron pipe recently laid in Summer Street for the better protection of the large car-stables and other valuable property in that vicinity.

The bursts on mains occasioned innumerable complaints, and emphasized the necessity of substituting iron pipe for the old cement-lined pipe as rapidly as possible.

Great complaint is made, during the winter months, of an insufficient water supply on Highland Avenue and Spring Hill. To remove the cause of the same, I recommend that the plan originally contemplated, to lay a ten-inch main from a point near Grove Street through Highland Avenue to Central Street, be carried out.

STOP-GATES.

Thirty-eight gates were set, — 34 on extensions, and 4 on old mains, viz. : —

On old mains, —

- 1 three-inch gate, corner of Ashland and Summer Streets.
- 1 four-inch gate, corner of Clyde and Murdock Streets.
- 1 “ “ corner of Auburn Avenue and Cross Street.
- 1 “ “ corner of Howe and School Streets.

On extensions, —

- 1 six-inch gate on Joy Street near Washington Street.
- 1 “ “ on Joy Street near Poplar Street.
- 1 “ “ on Joy Street, midway.
- 1 four-inch gate on Aldrich Street, corner of Pearl Street.
- 1 six-inch gate on Appleton Street, corner of Lowell Street.
- 1 “ “ on Austin Street, corner of Mystic Street.
- 1 “ “ on Berkeley Street, corner of Central Street.
- 1 “ “ on Berkeley Street, half way to Central Street.
- 1 “ “ on Bigelow Street, corner of Boston Street.
- 1 eight-inch “ on Bow Street, corner of Somerville Avenue.
- 1 four-inch “ on Bow-street Place.
- 1 two-inch “ on Bradford Avenue.
- 1 six-inch “ on Cedar Court, corner of Cedar Street.
- 1 “ “ on Chestnut Street, corner of Cedar Street.
- 1 “ “ Fiske Avenue, corner of Lowell Street.
- 1 “ “ on Garden Street, corner of Concord Avenue.
- 1 “ “ on George Street, corner of Lincoln Street.
- 1 “ “ on Hillside Avenue, corner of Walnut Street.
- 1 “ “ on Jay Street, corner of Holland Street.
- 1 “ “ on Lexington Avenue, corner of Willow Avenue.
- 1 “ “ on Montgomery Avenue, corner of Broadway.
- 1 “ “ on Poplar Street, corner of Somerville Avenue.
- 1 “ “ on Poplar Street, corner of Linwood Street. No.
- 1. 1 “ “ on Poplar Street, corner of Linwood Street. No.
- 2. 1 “ “ on Runey Street.
- 1 “ “ on St. James Avenue, corner of Summer Street.
- 1 “ “ on Stickney Avenue, corner of Marshall Street.

- 1 six-inch gate on Sunnyside Avenue, corner of Walnut Street.
- 1 “ “ on Sunnyside Avenue, corner of Dana Street.
- 1 “ “ on Union Glass Co.'s premises.
- 1 “ “ on Vernon Street, corner of Trull Street.
- 1 “ “ on Virginia Street, corner of Aldrich Street.
- 1 “ “ on Wellington Avenue, corner of Walnut Street.
- 1 “ “ on Wheatland Street.

On account of re-laying pipe, the following changes in sizes of stop-gates have been made :—

Gate corner of Somerville Avenue and Poplar Street changed from four inches to six inches.

Gate corner of Poplar and Linwood Streets, from four inches to six inches. No. 1.

Gate corner of Poplar and Linwood Streets, from four inches to six inches. No. 2.

Gate corner of Joy and Poplar Streets, four inches to six inches.

Gate corner of Joy and Washington Streets, from four inches to six inches.

Gate on Bow Street, from six inches to eight inches.

Twenty-two gates were packed, 7 had general repairs, and 24 new gate-boxes were substituted for old ones. All gates were carefully inspected and kept constantly in working order.

The total number of gates in the city is 516.

SERVICE PIPES.

The number of services laid in 1887 was 370, at an average cost of \$18.16.

The total number of services in the city is now 4,996; total length of pipe 32 miles, 1,162 feet.

Sixty-one services were cleared of rust, sediment, etc.; 14 of eels; 40 were dug up and tapped at the corporation; and 10 were thawed.

Fifty-two new services were substituted for old ones; of which number 31 were paid for by private parties, and the balance by the service department.

Twenty-four new boxes were set on old services; 101 old wooden service-boxes were replaced by an equal number of new iron ones; 78 services were shut off for repairs.

There were 53 leaks on services, the causes of which were, —

Pipes burst	8
Broken stopcocks	6
Broken leads	15
Broken gates	4
Broken couplings	10
Rust holes	1
Freezing	1
Broken joints	3
Corporation cock	1
Broken tees	4

HYDRANTS.

Twenty-seven hydrants were set, — 9 on old mains, and 18 on extensions. They were located as follows : —

On old mains, —

Beacon Street, near Park Street.
 Bow Street, opposite Bow-street Place.
 Joy Street, midway.
 Joy Street, near Poplar Street.
 Joy Street, near Washington Street.
 Lowell Street, near Appleton Street.
 Lowell Street, midway.
 Somerville Avenue, near Granite Street.
 Tufts Street, opposite schoolhouse.

On extensions, —

Appleton Street, leading from Lowell Street.
 Berkeley Street, near Central Street.
 Boston Street, near Bigelow Street.
 Chandler Street, opposite Chapel Street.
 Chandler Street, near Park Avenue.
 Fiske Avenue, near Hinckley Street.
 Hillside Park, leading from Walnut Street.
 Jay Street, near Cambridge line.
 Lake Street, near New Church Street.
 Pearl Street, near Aldrich Street.
 Preston Street, leading from School Street.

Sunnyside Avenue, near Dana Street.

Vernon Street, near Trull Street.

Warwick Street, leading from Cedar Street.

Wellington Avenue, near Montgomery Avenue.

Wheatland Street, leading from Broadway.

Wyatt Street, leading from Concord Avenue.

Union Glass Co.'s yard.

Five flush hydrants were removed and new Chapman hydrants substituted on the 24-inch main, in accordance with agreement with city of Boston. These were : 1 on Fremont Street, near the corner of Main Street ; 1 on Brooks Street, corner of Heath Street ; 1 on Jacques Street, corner of Heath Street ; 1 midway of Heath Street ; and 1 near the corner of Temple and Heath Streets.

The flush hydrants on Joy Street and corner of Myrtle and Washington Streets were abandoned.

Eight hydrants were taken out, repaired with new valves and wastes, and reset ; 18 had other repairs ; 4 were found frozen and thawed out ; 270 were repacked. Chains, etc., were repaired on 25. Five decayed wooden jackets were replaced by 5 iron ones. All hydrants were carefully looked over, oiled, and received other attentions.

The following are the private hydrants : —

One on C. H. North & Co.'s premises.

One on American Tube Works' premises.

Five in grounds of McLean Asylum.

Two on premises of Middlesex Bleachery.

Three on premises of John P. Squire & Co.

One on premises of Union Glass Co.

STAND-PIPES.

Two new stand-pipes were set, — one on the corner of Linwood and Poplar Streets, the other midway of Gilman Street.

One stand-pipe was removed from Pearl Street to Otis Street for the sake of convenience.

All stand-pipes were kept in thorough repair, and no complaint was received concerning them.

The total number in the city is twenty-six.

It has been customary in years past to use the hydrants for supplying the street watering-carts, for which purpose they were not intended and are not adapted. The practice invariably causes trouble, by changing the currents and roiling the water, and I recommend that a sufficient number of stand-pipes be set to fully meet the requirements of the city.

DRINKING FOUNTAINS.

These received all customary care, and are in good condition. The one in Union Square was destroyed by a heavy team, and the fountain formerly located there was repaired and replaced in position. It is now in perfect working order.

MISCELLANEOUS WORK.

In the shops, 422 services were cut and fitted; 500 lead connections were made; 14,167½ feet of 1-inch, 1¼-inch, and 1½-inch pipe were lined; gates and hydrants altered and repaired; gate-boxes constructed; and all incidental work was performed.

As usual, a large number of trenches were repaired, and many places paved.

MACHINERY, TOOLS, AND FURNITURE.

Stable department	\$1,264 00
Tools and machinery for water works	658 72
Office furniture	280 00
Tools and machinery for water service	500 00

STOCK AVAILABLE FOR FUTURE USE, JAN. 1, 1888.

Cast-iron pipe	\$3,016 80
Cement-lined pipe	119 50
Service pipe, lined and unlined	374 60
Iron hubs	19 89
Service materials	1,934 73
Materials for water works	153 13

EXTENSION OF PIPE IN 1887, GATES AND HYDRANTS SET.

LOCATION.	EXTENSION.				STOP-GATES.					Hydrants.
	2 in.	4 in.	6 in.	8 in.	2 in.	3 in.	4 in.	6 in.	8 in.	
Aldrich Street	-	264' 0"	-	-	-	-	1	-	-	-
Appleton Street	-	-	418' 0"	-	-	-	-	1	-	1
Ashland St., cor. Summer .	-	-	-	-	-	1	-	-	-	-
Auburn Avenue	-	-	-	-	-	-	1	-	-	-
Austin Street	-	-	81' 0"	-	-	-	-	1	-	-
Beacon Street	-	-	-	-	-	-	-	-	-	1
Berkeley Street	-	-	744' 0"	-	-	-	-	2	-	1
Bigelow Street	-	-	208' 0"	-	-	-	-	1	-	-
Boston Street	-	-	408' 9"	-	-	-	-	-	-	1
Bow Street	-	-	-	-	-	-	-	-	1	1
Bow-street Place	-	-	-	-	-	-	1	-	-	-
Bradford Avenue	173' 0"	-	-	-	1	-	-	-	-	-
Buckingham Street	-	117' 0"	-	-	-	-	-	-	-	-
Cedar Court	-	-	285' 0"	-	-	-	-	1	-	-
Chandler Street	-	-	7' 0"	-	-	-	-	-	-	1
Chandler Street	-	-	7' 0"	-	-	-	-	-	-	1
Chestnut Street	-	-	218' 0"	-	-	-	-	1	-	-
Clyde Sreet	-	50' 0"	-	-	-	-	-	-	-	-
Fiske Avenue	-	-	509' 6"	-	-	-	-	1	-	1
Fremont Avenue	-	244' 6"	-	-	-	-	-	-	-	-
Garden Street	-	-	121' 0"	-	-	-	-	1	-	-
George Street	-	-	79' 0"	-	-	-	-	1	-	-
Hillside Avenue	-	-	221' 0"	-	-	-	-	1	-	1
Howe Street, cor. School .	-	-	-	-	-	-	1	-	-	-
Jay Street	-	-	553' 0"	-	-	-	-	1	-	1
Joy Street	-	-	-	-	-	-	-	3	-	3
Lake Street	-	-	462' 0"	-	-	-	-	-	-	1
Lexington Avenue	-	-	647' 0"	-	-	-	-	1	-	-
Lowell St., near Appleton .	-	-	7' 0"	-	-	-	-	-	-	1
Lowell Street, near Wilton.	-	-	7' 0"	-	-	-	-	-	-	1
Maple Street	-	-	12' 0"	-	-	-	-	-	-	-
Montgomery Avenue	-	-	314' 0"	-	-	-	-	1	-	-
Murdock Street	-	-	-	-	-	-	1	-	-	-
Mystic Avenue	-	-	123' 0"	-	-	-	-	-	-	-
North & Co.'s yard	-	-	24' 0"	-	-	-	-	-	-	-
Oxford Street	-	-	87' 0"	-	-	-	-	-	-	-
Park Street, to Beacon . . .	-	-	11' 0"	-	-	-	-	-	-	-
Parker Street	-	50' 6"	-	-	-	-	-	-	-	-
Pearl St., near Aldrich . . .	-	-	7' 0"	-	-	-	-	-	-	1
Poplar Street	-	-	-	-	-	-	-	3	-	-
Preston Street	-	-	6' 6"	-	-	-	-	-	-	1
Richdale Avenue	-	-	59' 0"	-	-	-	-	-	-	-
Runey Street	-	-	176' 0"	-	-	-	-	1	-	-
Somerville Av., nr. Granite .	-	-	6' 0"	-	-	-	-	-	-	1
St. James Avenue	-	-	294' 0"	-	-	-	-	1	-	-
Stickney Avenue	-	-	508' 0"	-	-	-	-	1	-	-
Sunnyside Avenue	-	-	347' 0"	-	-	-	-	2	-	1
Tufts Street	-	-	7' 0"	-	-	-	-	-	-	1
Union Glass Co.	-	-	137' 0"	-	-	-	-	1	-	1
Vernon Street	-	-	623' 6"	-	-	-	-	1	-	1
Virginia Street	-	-	410' 0"	-	-	-	-	1	-	-
Wellington Avenue	-	-	260' 0"	-	-	-	-	1	-	1
Wheatland Street	-	-	277' 0"	-	-	-	-	1	-	1
Wyatt Street	-	-	312' 0"	-	-	-	-	-	-	1
Warwick Street	-	-	6' 0"	-	-	-	-	-	-	1
Beacon Street	-	-	1032' 0"	-	-	-	-	-	-	-
Bow Street	-	-	-	470' 0"	-	-	-	-	-	-
Bow-street Place	-	31' 0"	-	-	-	-	-	-	-	-
Cross Street	-	-	36' 0"	-	-	-	-	-	-	-
Cross Street	-	-	36' 0"	-	-	-	-	-	-	-
Durham Street	-	-	22' 0"	-	-	-	-	-	-	-
Joy Street	-	-	1139' 0"	-	-	-	-	-	-	-
Medford Street	-	-	-	15' 0"	-	-	-	-	-	-
Park Street	-	-	22' 0"	-	-	-	-	-	-	-
Poplar Street	-	-	730' 0"	-	-	-	-	-	-	-
School Street	-	-	51' 0"	-	-	-	-	-	-	-
Summer Street	-	-	46' 0"	-	-	-	-	-	-	-
Vine Street	-	-	22' 0"	-	-	-	-	-	-	-

Respectfully submitted,
N. DENNETT, *Superintendent.*

REPORT
OF THE
OVERSEERS OF THE POOR.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Jan. 25, 1888.

Referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

DOUGLAS FRAZAR, *Clerk pro tem.*

IN COMMON COUNCIL, Jan. 26, 1888.

Concurred in.

CHAS. S. ROBERTSON, *Clerk.*

BOARD OF OVERSEERS OF THE POOR.

COL. HERBERT E. HILL	Ward One.
CHARLES S. LINCOLN, ESQ., <i>Chairman</i>	Ward Two.
HON. EDWARD GLINES	Ward Three.
MR. CHARLES G. BRETT	Ward Four.
C. C. FOLSOM, <i>General Agent</i> .	

REPORT OF THE GENERAL AGENT OF THE BOARD OF OVERSEERS OF THE POOR, 1887.

To the Overseers of the Poor of the City of Somerville.

GENTLEMEN, — I herewith submit to you my annual report for the year ending Dec. 31, 1887.

The amount appropriated for the expenses of the Poor Department for the year was \$14,000, or \$1,000 less than for the preceding year. This amount has been sufficient; and we now have on hand an unexpended balance of \$2,126.44.

The year past has been quite noticeable in the decrease in number of persons calling for “temporary aid,” and in the reduction of expenses in this department.

Every case of destitution coming to my notice has been relieved; yet I believe there will always be more or less suffering among that class of poor persons who are brought to their poverty by the use of strong drink, because, however large the amount of aid the city may give, they will cling to their old habits, and spend their small earnings for drink rather than for food and clothing for their families. But I believe that the year past has been as free from suffering and destitution as any year in the history of this city, or any other in the commonwealth.

The need of an almshouse grows more apparent every year, owing to the increase in the number of paupers who have to be *fully* supported.

We have at present in neighboring almshouses nine paupers; distributed as follows: Boston two, Lowell one, Taunton two, and Peabody four. We are liable at any time to receive orders to remove any or all of these paupers, owing to the crowded condition of the several almshouses. And it seems hardly fair or reasonable to expect other towns to provide accommodation for our paupers, even though we are willing to pay for the same.

We have at present sixteen persons boarding in private families in this city and vicinity, and we may be called upon to remove them at any time.

In addition to the above, we always have quite a large number of sick or disabled persons whom we are obliged to support a few weeks or months in the year. The number the last year has been 29. I have had to send them either to a Boston hospital or into some private family. The last named who are willing to take pauper boarders are very hard to find.

The whole number of persons aided during the year has been 685, or 211 less than the previous year.

The number of families aided temporarily during the year has been 171, or 30 less than the previous year.

I will call your attention for particulars to the statistical tables.

CHARLES C. FOLSOM,

General Agent Overseers of the Poor.

CITY OF SOMERVILLE.

To the Honorable the City Council of Somerville.

GENTLEMEN, — At the request of the Overseers of the Poor, the General Agent has submitted to them his report, giving an account of the work of the Board for the year ending Dec. 31, 1887; so it becomes hardly necessary to make a detailed report, as it would simply involve a needless repetition; they therefore adopt as the official report that of the General Agent, as containing all the information generally required, and request that the same may be printed.

They deem it important, however, to emphasize his appeal for the erection of an almshouse for the accommodation of the unfortunate poor.

Frank W. Kaan has been elected Clerk in place of George T. Lincoln resigned, and has entered upon the duties of the office.

They present herewith schedules which will show the monthly expenditures and the different purposes for which the appropriation has been distributed.

CHAS. S. LINCOLN, *Chairman*.
EDWARD GLINES.
HERBERT E. HILL.
CHAS. G. BRETT.

TABLE NO. 1.

OUT-DOOR RELIEF.

Number of families aided during the year	171
“ “ persons “ “ “ “	685
“ “ “ “ having a settlement in this city	410
“ “ “ “ “ “ “ other towns	
and cities	148
Number of persons aided having no settlement, chargeable in part to State	137

Number of persons aided in other towns and cities, charge- able to Somerville	102
Number of persons given permits to State almshouses	8
“ “ “ aided in House of Correction	3
“ “ “ refused assistance for good reasons	15
“ “ visits of General Agent to paupers, examining records, etc.	225

TABLE NO. 2.

FULL SUPPORT.

Number of persons who have been fully supported during the whole or any part of the year in hospitals, alms- houses, private families, etc.	66
Number of persons supported during the whole year	34
Number of sane persons supported during the whole or any part of the year	39
Number of insane persons supported during the whole or any part of the year	27
Number of sane persons supported during the whole or any part of the year in almshouses	10
Number of persons supported during the whole or any part of the year in private families (including one insane)	21
Number of sane persons supported during the whole or any part of the year in Boston hospitals	8

TABLE NO. 3.

PAY ROLLS FOR	1884.	1885.	1886.	1887.
January	\$2,913 20	\$2,578 43	\$3,296 01	\$2,769 44
February	980 45	1,198 38	965 30	834 62
March	1,487 43	2,293 47	908 12	1,296 90
April	1,716 54	1,400 97	1,805 75	1,073 43
May	718 23	639 81	662 41	691 49
June	1,750 43	1,211 58	972 22	927 13
July	1,415 09	2,373 39	1,663 89	1,500 01
August	1,231 11	710 82	590 00	510 11
September	2,072 35	898 50	774 84	1,431 86
October	1,023 72	1,773 42	1,395 11	725 01
November	828 79	434 94	669 28	696 69
December	1,135 18	916 60	638 90	974 20
Total	\$17,272 52	\$16,430 32	\$14,341 83	\$13,430 89

TABLE NO. 4.

ITEMS OF EXPENDITURES.

Paid for rent of paupers	\$1,467 00
“ board of “	1,665 23
“ groceries for paupers	1,761 26
to other cities and towns for support of paupers	1,643 35
to public institutions, hospitals, etc., for support of paupers	4,003 85
for fuel for paupers	665 64
“ boots and shoes for paupers	186 00
“ dry goods and clothing for paupers	41 25
“ burials of paupers	80 00
“ sundries *	467 31
“ salaries of general agent and secretary	1,450 00
Total expenditure	<u>\$13,430 89</u>

* This item includes \$182.20 expended in repairing the McKone house on South Street, given to the city by Mrs. Ann McKone, who is over ninety years old.

TABLE NO. 5.

RECEIPTS, EXPENDITURES, AND BALANCE.

Received for the support of paupers from commonwealth of Massachusetts	\$441 22
Received for the support of paupers from city of Boston	275 37
Received for the support of paupers from city of Cambridge	27 65
Received for the support of paupers from city of Newburyport	25 70
Received for the support of paupers from city of Lowell	38 65
Received for the support of paupers from city of Fitchburg	42 21
Received for the support of paupers from town of Arlington	32 55
<i>Amount carried forward</i>	<u>\$883 35</u>

<i>Amount brought forward</i>	\$883 35
Received for the support of paupers from town of Natick	9 90
Received for the support of paupers from town of Manchester	49 50
Received for the support of paupers from town of Medford	64 55
Received for the support of paupers from town of Woburn	81 82
Received for the support of paupers from town of Revere	9 90
Received for the support of paupers from town of Melrose	3 70
Received for the support of paupers from town of Milford	4 70
Received for the support of paupers from town of Hopkinton	19 40
Received from Westboro' Insane Asylum, check re- turned	42 71
Received for furniture from F. H. Mixon	5 00
“ from (cash returned) William Ross	5 00
“ for board of insane person from S. W. Dow, guardian	109 77
Received for board of insane person from O. S. Knapp, guardian	172 96
Received for board of insane person from Martha Osgood, guardian	42 71
Received for board of insane person from C. C. Folsom, guardian	42 71
Received for barrels, work, etc., from C. C. Folsom, Appropriation	9 65 14,000 00
Total receipts	<hr/> \$15,557 33
Total expenditures	13,430 89
Balance	<hr/> <hr/> \$2,126 44

TABLE NO. 6.
RECAPITULATION OF EXPENDITURES.

	Rent.	Board.	Groceries.	Towns and Cities.	Public Institutions.	Boots and Shoes.	Dry Goods.	Burials.	Salaries.	Fuel.	Sundries.	Monthly Total.
January. .	\$120 50	\$134 11	\$239 25	\$913 26	\$980 97	\$59 00	\$6 00	-	\$116 66	\$162 95	\$36 74	\$2,769 44
February .	126 50	120 00	298 00	60 00	-	8 00	-	-	116 66	99 10	6 36	834 62
March . .	126 50	146 53	114 63	28 72	584 17	14 00	-	\$35 00	116 66	113 90	16 79	1,296 90
April. . .	156 50	144 63	164 10	-	444 88	3 00	-	-	133 33	-	26 99	1,073 43
May . . .	114 50	130 54	111 50	110 30	-	37 75	4 00	10 00	120 83	25 45	26 62	691 49
June. . .	118 50	147 06	132 00	169 00	261 49	-	8 00	-	120 83	-	30 25	927 13
July . . .	116 50	137 18	186 92	289 51	608 22	7 50	-	5 00	120 83	-	28 35	1,500 01
August . .	116 50	123 43	68 50	27 14	21 71	1 25	3 50	-	120 83	-	27 25	510 11
September.	116 50	149 08	103 00	-	717 27	15 50	-	10 00	120 83	-	199 68	1,431 86
October. .	116 50	146 47	106 82	56 21	88 93	6 25	7 50	10 00	120 83	39 25	26 25	725 01
November .	116 50	123 36	138 54	49 21	-	5 50	-	10 00	120 83	104 51	28 24	696 69
December .	121 50	162 84	98 00	-	296 21	28 25	12 25	-	120 88	120 48	13 79	974 20
Total . .	\$1,467 00	\$1,665 23	\$1,761 26	\$1,643 35	\$4,003 85	\$186 00	\$41 25	\$80 00	\$1,450 00	\$665 64	\$167 31	\$13,430 8

REPORT OF THE BOARD OF HEALTH.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Feb. 1, 1888.

Referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, *Clerk pro tem.*

IN COMMON COUNCIL, Feb. 9, 1888.

Concurred in.

CHAS. S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF THE BOARD OF HEALTH,
CITY HALL, Jan. 30, 1888.

To his Honor the Mayor and the City Council.

GENTLEMEN, — The following is respectfully submitted as the tenth annual report of this board.

MEMBERSHIP.

Jan. 26, George A. Kimball was re-appointed for two years. March 23, Mr. Kimball tendered his resignation, to take effect on the appointment of his successor; and June 22, J. Frank Wellington was appointed to succeed him. Otherwise the membership has been the same as in 1886. Mr. Kimball had been a member of the Board ever since its formation in 1878; and his services to the city in that capacity have been invaluable, while his relations with his fellow-members were always of the most pleasant character.

ORGANIZATION.

Feb. 7, the Board was organized as follows: —

Chairman, GEORGE A. KIMBALL.

Clerk, GEORGE I. VINCENT.

Inspector, WILLIAM H. BRINE (40 Houghton Street).

July 7, Thomas M. Durell, M.D., was chosen chairman, to fill the vacancy caused by Mr. Kimball's resignation.

NUISANCES.

The number of nuisances abated is shown in the following table, which is arranged by the months when the complaints were received: —

NUISANCES ABATED IN THE YEAR 1887.

	January.*	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Cellar damp	4	1	4	7	3	2	5	2	3	1	3	-	35
Cesspool defective	-	-	-	-	-	-	1	-	-	-	-	-	1
“ offensive	1	1	-	-	-	-	2	-	-	-	-	-	4
“ overflowing	1	1	-	2	-	-	2	-	-	-	-	-	6
Connections of drainage pipes defective	8	-	1	5	-	2	5	1	1	4	3	1	31
Drainage defective	5	1	-	2	2	3	3	1	3	8	3	1	32
“ emptying into cellar	-	-	-	-	1	1	1	-	1	5	1	2	12
“ emptying on surface	5	-	-	2	3	-	2	-	-	1	-	-	13
“ not ventilated	12	3	2	7	8	5	3	4	5	2	5	1	57
Drain-pipe clogged	-	-	-	-	-	-	5	-	-	1	-	-	6
“ defective	9	-	1	3	-	1	2	-	-	4	-	-	20
Furnace without cold-air box	-	-	-	-	1	-	-	-	-	-	-	-	1
Hennery offensive	-	-	-	-	-	-	2	1	-	-	-	-	3
Hens kept in cellar	-	-	-	1	-	-	-	-	-	-	-	-	1
Horse kept in L of house	-	-	-	1	-	-	-	-	-	-	-	-	1
Manure exposed and offensive	2	1	1	4	4	1	4	3	2	1	-	1	24
No house drainage	1	-	-	-	-	-	1	-	1	-	-	-	3
Offal on land	2	1	-	1	1	2	-	-	-	-	-	1	8
Offal barrel offensive	-	-	-	-	-	-	1	-	-	-	-	-	1
Offensive odor in and about dwellings	3	-	2	3	2	3	1	1	2	1	2	2	22
Offensive odor from factory	-	-	-	-	1	-	-	-	-	-	-	-	1
Opening in drain-pipe in cellar, Premises filthy	1	1	-	1	1	1	-	2	-	-	-	-	5
Premises without privy or water-closet	-	-	-	-	1	-	-	-	-	-	-	-	1
Privy-vault defective	-	-	-	-	-	-	-	-	-	4	-	-	4
“ full	3	1	-	3	1	6	-	3	-	5	-	2	24
“ offensive	10	1	1	12	1	10	11	7	5	13	7	2	80
Slops thrown on surface	2	-	-	1	-	2	-	-	-	-	-	-	5
Stable and stable premises filthy and offensive	4	1	-	-	1	4	5	1	1	1	-	-	18
Stagnant water in house cellar	1	-	1	2	2	1	2	-	-	-	-	-	9
“ on surface	2	-	-	2	2	4	1	-	2	-	-	-	13
Waste-pipe defective	-	1	-	2	-	-	1	2	-	1	1	1	9
“ not trapped	25	2	8	16	16	7	12	12	10	3	10	-	121
Water-closet defective	4	-	-	1	-	-	-	2	1	-	2	1	11
“ insufficiently supplied with water	5	1	1	-	2	-	1	-	1	1	-	2	14
Water-closet not supplied with water	-	-	-	1	-	-	-	-	-	-	-	-	1
Water-closet offensive	13	-	1	6	4	-	2	5	5	2	2	1	41
Wooden waste-pipes and drains	3	-	2	1	-	-	1	1	-	-	1	-	9
Total	127	17	26	87	57	55	78	46	43	58	40	18	652

* Including nuisances referred to us by the Board of 1886.

Number of nuisances abated	652
“ “ “ referred to the Board of 1888	79
“ “ “ complained of	731
“ “ complaints (many covering more than one nuisance)	299
“ of houses ordered vacated	15
“ “ same since made habitable	12
“ “ “ vacated in compliance with our orders	1

Number of houses caused to be vacated by the chief of	
police at our request	4
“ of notices mailed	325
“ “ “ served by constables	33
“ “ letters written	53

PRIVATE STREETS. — Occasionally some of our private streets require attention for sanitary reasons; and, as it is seldom practicable for the abutters to unite in working a remedy, it becomes the duty of the city to take action.

South Street, until the coming of the cold weather, was in a condition dangerous to the health of the people. The heavy teaming, the rains of the fall season, and the refuse materials deposited there, caused an accumulation of mud and filth which will again become a serious nuisance when milder weather returns. The street is much lower than the abutting lands, and should be filled to the proper grade.

Columbia Street became so bad late in the fall, that we felt compelled to act in the matter. The street is at a low grade, and its surface is uneven, and, in consequence, stagnant water stood there in such quantities as to make the street nearly impassable, as well as to endanger health. We therefore employed the sewer department to build a catch-basin in the street, and connect it with a common sewer, and engaged the ashes collector to dump ashes, which are spread so as to make the surface of the street regular and turn the water toward the catch-basin, thus abating the nuisance for the time being. Nearly all the abutters have raised their houses to a proper grade, and have put them in good repair, and they are now anxious to have the city lay out and construct the street under the betterment law, as they are ready to pay their part of the cost. We hope the City Council will see its way clear to accede to their wishes, as such action would not only subserve the public health, but would also improve very materially the appearance of that portion of our city.

SLAUGHTER-HOUSES. — An investigation, under the joint direction of the Boards of Health of Cambridge and Somerville, has been prosecuted during the year, for the purpose of ascertaining to what extent the sewage from the slaughter-houses on the borders of the two cities, contributes toward the nuisance at the mouth of the Bridge Street sewer, and also to learn the cause of

the offensive odors which are found, at times, in East Somerville.

The matter is still under consideration.

PERMITS.

We have continued granting permits to keep swine and goats, and to collect grease, charging two dollars for a permit to collect grease, and one dollar for each swine or goat.

Our regulations provide that “no person shall remove any manure, or cause or suffer the same to be removed, between the first day of May and the first day of November, except between twelve o’clock at night and two hours after sunrise, without a written permit from the Board of Health.”

We have, therefore, when deemed advisable, issued permits for the hauling of manure through the streets in the daytime, between the 1st of May and the 1st of November, on condition that the following requirements be complied with, any violation of the same being deemed sufficient cause for the revocation of the permit, or to subject the offender to prosecution, or both : —

1. It shall be carried in a tight, canvas-covered vehicle, with the covering *at all times* so secured to the sides and ends of the vehicle, *while moving with a load* within the city limits, as actually to prevent the contents from dropping.

2. The number of this permit shall be painted in figures at least two inches in size, with the letter S, of corresponding size, prefixed, in some conspicuous position upon the vehicle driven.

We have also given permits, in the same manner, to remove manure from stables in this city, and transport the same through the streets, in the daytime, between the first day of May and the first day of November, — the removal to be completed before nine A.M., — upon the conditions above stated, and also upon the following condition : —

3. The premises from which the manure is removed shall be left in a neat condition.

SWINE. — Permits have been applied for to keep 207 swine, and we have granted them for 203, and refused them for 4.

GOATS. — Number for which permits were asked, 35, and the requests have all been granted.

GREASE. — Number of permits applied for, 7; all of which were granted. 4 of the applicants resided in Somerville, 2 in Boston, and 1 in Cambridge.

22 parties residing in Somerville were licensed by the Board of Health of Boston to collect grease in that city during the year, and 4 received licenses to collect grease in Cambridge.

MANURE. — 87 permits have been granted to haul manure through the streets in the daytime, between the 1st of May and the 1st of November, and 20 to remove the same from stables in this city and convey it through the streets during the same period, on the conditions above specified.

PEDLERS.

The City Council having passed an ordinance requiring every hawker or pedler selling goods in this city to record his name with this Board, 137 parties have made such record with us, and received certificates thereof. Each pedler is assigned a number, which must be marked conspicuously on his wagon, and a periodical inspection of the wagon is required.

Complete information of the parties prosecuting this kind of business in our city is thus acquired, and we are enabled to see that cleanliness is observed.

ASHES.

On the expiration of Jeremiah McCarthy's contract to remove ashes and house-dirt at a compensation of seventeen hundred dollars per annum, a new contract was made with him, for the year commencing April 29, for the sum of two thousand dollars, he being the lowest bidder.

The days for collections are the same as last year: viz., —

On Wednesdays in Ward One.

On Thursdays in Ward Two.

On Fridays in Ward Three.

On Saturdays in Ward Four.

The ashes to be removed must be set in barrels on the outer edge of the sidewalk before nine o'clock A.M., and must not contain filth or offal.

The contractor reports that about 11,000 loads were removed during the year 1887.

HOUSE OFFAL.

The house offal has been collected by Henry Gray, under a contract for three years from June 26, 1886, at an annual compensation of nine hundred dollars.

The contract requires that the offal be collected at least three times per week in the months of May, June, July, August, and September; twice every week in the months of April, October, and November; and once a week in the months of December, January, February, and March.

We learn from the contractor that the collections in 1887 amounted to about 375 cords.

NIGHT-SOIL.

Order-books for the removal of night-soil are kept at the police station on Bow Street, and at the grocery store at the corner of Perkins and Franklin Streets.

The work during the past year has been done by Mr. R. M. Johnson of Arlington, by the "odorless" process, under a contract which expires on the first day of February in the present year; the price being four dollars per load, or part of a load, of eighty cubic feet.

The contractor informs us that 595 loads were removed during the year.

A new contract for three years from Feb. 1 has just been made with Mr. Johnson, on the same terms as the one about to expire.

SEWERS.

About the usual length of sewers has been laid by the Board of Aldermen during the past year; but, with the exception of short pieces in Broadway and Medford Street, near their junction, none of them are in localities that have demanded special attention from this Board.

Woodbine, Madison, and Montrose Streets, which were named in our last report as being in particular need of sewers, are still unprovided for, and we hope they will receive attention this year. They are on the northerly slope of land between Highland Avenue and the Lowell Railroad, where the soil is such that it will not absorb the sewage, which, therefore, overflows upon the yards or vacant lots farther down the hill.

MORTALITY IN SOMERVILLE IN 1887 — *Continued.*

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
<i>Genito-Urinary Organs.</i>													
Bright's disease	4	2	4	2	2	2	-	7	1	5	3	3	35
Diabetes	-	-	-	-	-	-	1	1	-	-	-	-	2
Cystitis	-	-	-	-	-	-	-	-	-	-	1	1	2
DEVELOPMENTAL DISEASES.													
<i>Of Children.</i>													
Premature birth and infantile debility	1	-	5	4	5	4	3	-	3	5	4	3	37
<i>Of Old People.</i>													
Old age	4	2	-	1	1	2	-	1	3	4	1	-	19
General debility	-	-	-	-	-	-	-	-	-	-	2	-	2
VIOLENT DEATHS.													
Exposure to cold	-	-	-	1	-	-	-	-	-	-	-	-	1
Asphyxia	-	-	-	-	1	1	-	1	-	-	-	-	3
Accident	1	-	-	-	-	1	-	-	1	1	-	-	4
Accidental drowning	-	-	-	-	-	1	2	-	1	-	-	-	4
Railroad	1	-	1	-	-	-	-	-	-	-	1	2	5
Sunstroke	-	-	-	-	-	-	1	-	-	-	-	-	1
Shock	1	-	-	-	-	-	-	-	-	-	-	-	1
<i>Suicide</i>	-	-	-	-	-	-	-	-	-	1	-	-	1
<i>Unknown</i>	-	-	-	-	-	-	-	-	-	-	-	1	1
Total	52	30	61	45	41	41	71	61	37	51	66	65	621
Still-born	-	2	1	2	3	2	-	-	1	4	2	5	22

Population (estimated)	34,023
Death rate per thousand	18.25

DISEASES DANGEROUS TO PUBLIC HEALTH.

Our city has not been visited by small-pox, varioloid, or typhus fever during the past year; the only diseases commonly classed as dangerous to the public health which have been reported being scarlet fever, diphtheria, and typhoid fever.

In November regulations were adopted and published as follows: —

IN BOARD OF HEALTH OF THE CITY OF SOMERVILLE,
Nov. 23, 1887.

Whereas, It has been voted by this Board that from and after this date every dwelling where a case of small-pox, scarlet fever, diphtheria, or typhus fever is known to exist be conspicuously labelled at its entrance or entrances with a card or cards marked "small-pox here," "scarlet fever here," "diphtheria here," or "typhus fever here," as the case may be, said card or cards there to remain until removed by this Board, or its agent, or by permission of this Board. It is therefore

Ordered, That the following regulation be and is hereby adopted:—

1. No person shall, without permission from this Board, remove from any dwelling in this city any card affixed thereto by this Board or its agent, indicating that small-pox, scarlet fever, diphtheria, or typhus fever exists in said dwelling; nor shall any person obliterate or deface such card; nor shall the occupant of any dwelling to which such card may be affixed permit the same to be removed, obliterated, or defaced, without immediately notifying this Board; nor shall any person, except members of the immediate family, and those whose business calls them there, visit a dwelling labelled with a card as aforesaid, without the written permission of this Board.

2. Any person who shall remove or deface such card, without the written permission of this Board, shall be liable to a penalty of not less than ten dollars for each offence.

IN BOARD OF HEALTH OF THE CITY OF SOMERVILLE,
Nov. 23, 1887.

Whereas, It has heretofore been ordered by this Board that the remains of every person dying of small-pox, scarlet fever, diphtheria, or typhus fever shall at once be placed in a tight or sealed coffin, which shall not thereafter be opened or unsealed, and that the burial shall take place immediately, —

Ordered, That any undertaker who shall violate any of the provisions of the above-named order shall be liable to a penalty of not less than five, nor more than twenty, dollars, to be recovered as provided by law and to inure to the use of the said city.

SCARLET FEVER. — In the first nine months 84 cases of scarlet fever were reported, as compared with 99 in the same months of 1886; but the reports in the last three months of 1887 brought the total number for the year up to 202, while the total for 1886 was 110. Thirty-one cases resulted fatally in 1887, and only 3 in 1886.

The disease has been of a more severe type than in previous years, the number of deaths being greater than in any other year since this Board was established. We have taken every precaution to prevent the spread of this disease which seems practicable, without isolating the houses. As soon as a case is reported, our inspector places a large warning-card at the door of the house, and notifies the family, and also the principals of the schools where the children attend, that no child from that house can attend school until after four weeks from the commencement of the last case.

After the recovery or the funeral of the patient, the house is fumigated, unless other sickness in the family renders its postponement necessary; and, in case of death, before a burial permit is given, a certificate is required from the undertaker, in pursuance

of Chap. 124 of the Acts of the Legislature of 1883, that the body has been placed in a sheet saturated in a ten per cent solution of chloride of zinc, and placed in a tight coffin enclosed in a box, which is not to be re-opened. We also require that the burial shall take place immediately after the death, and forbid public funerals, or the placing of the body of the deceased in a public carriage.

In order to put the people on their guard against needless exposure and to give general information as to means for preventing the spread of the disease, the following circular has been distributed throughout the city by the hands of the police : —

CITY OF SOMERVILLE.

OFFICE OF BOARD OF HEALTH.

CITY HALL, SOMERVILLE, Nov. 1, 1887.

WHEREAS, Scarlet fever is a disease contagious and dangerous to the public health, and, whereas, it is now prevalent in the city of Somerville and the adjoining cities and towns; therefore, the Board of Health issues the following suggestions for preventing the spread of the disease : —

Scarlet fever, scarlatina, scarlet rash, canker rash, and rash fever are all names given to one and the same disease, which is highly contagious and readily transferable from one place or person to another. The contagious matter is capable of retaining its power of infection for a long time. The means of transportation may be furnished by any thing that has come in contact with an infected person, or which has been in the room or house where such person resides, — these objects may be air, clothing, sheets, blankets, hair and whiskers, furniture, toys, library books, wall-paper, curtains, domestic animals, etc. Funerals have also spread the disease, the exhalation from the dead body being very dangerous.

The time from the exposure to the first symptoms of the disease varies from six to ten days. The time fixed by this Board for the mingling of a person infected with this disease with others is four weeks from the commencement of the disease.

The one and all-important factor in preventing the spread of the disease is complete isolation. The patient should be in a room separate from the rest of the house, and communicate with as few members of the household as possible. Particular care should be taken in the mild cases, when the patient is able to be up and around the room; for from these mild cases the most fatal cases may come. Any case of scarlet fever, however slight, should be completely isolated until all roughness of the skin has disappeared.

Attendants on the sick should be as few as possible, and should not communicate with other persons any more than is absolutely necessary. They should wear only such clothing as may be readily washed. Gargling or washing the mouth with a cleansing fluid is a useful measure for those who must be exposed to contagion.

After recovery, the patient should not mingle with other persons until all roughness of the skin has disappeared, and until he has taken warm baths for several days. After the sick room is no longer needed as such, all clothing and other articles used in it that can be washed should be soaked in boiling water. Articles of trifling value should be burned. The wall-paper should be removed and burned. The ceiling should be washed with soap and hot water or scraped. The room should then be closed as tight as possible, and as much sulphur burned in it as the air will allow (a pound is an abundant amount for an ordinary room); it should be kept closed from six to eight hours, and then opened for several days to the air and sunshine. The floor and woodwork should then be thoroughly washed.

Should the sick person die, attention is called to the following regulations of the Board of Health:—

“*Whereas*, the diseases known as small-pox, scarlet fever, diphtheria, and typhus fever are contagious and dangerous to the public health, and have been, and may easily be, contracted at funerals, from dead bodies or apartments which have been infected by such diseases, it is therefore ordered that the following regulations be and are hereby adopted:—

“1. From and after this date, no public funeral shall be held over the remains of any person having died of small-pox, scarlet fever, diphtheria, or typhus fever, except by written consent of this Board, and under such regulations as said Board may prescribe; and no person, except members of the immediate family, and those whose business calls them there, shall be admitted to the house where such death has occurred, until after the interment has taken place and the premises have been fumigated, without the written permission of this Board.

“2. The remains of every person dying of either of said diseases shall at once be wrapped in a sheet saturated in a ten per cent solution of chloride of zinc, and placed in a tight coffin, enclosed in a box, which is not to be re-opened.”

The following sections in regard to isolation are from Chap. 80 of the Public Statutes:—

“SECT. 78. When a householder knows that a person within his family is sick . . . of any disease dangerous to the public health, he shall immediately give notice thereof to the . . . Board of Health of the town in which he dwells. If he refuses or neglects to give such notice, he shall forfeit a sum not exceeding one hundred dollars.

“SECT. 79. When a physician knows that a person whom he is called to visit is infected with . . . any disease dangerous to the public health, he shall immediately give notice thereof to the . . . Board of Health of the town; and if he refuses or neglects to give such notice, he shall forfeit for each offence not less than fifty nor more than one hundred dollars.”

The Board of Health of Somerville considers small-pox, diphtheria, scarlet

fever, typhus and typhoid fevers diseases dangerous to the public health. As scarlet fever is particularly a disease of children, the Board has further ordered:—

“That no child from any house in which a case of this disease has occurred, or shall hereafter occur, shall, without a written permit from this Board, attend any school in this city until the expiration of four weeks from the commencement of the last case in such family. Such length of time shall be certified in writing by a physician, or some responsible member of the family, the certificate to be presented to the teacher of the school before the child is admitted.”

THOMAS M. DURELL, M.D.,	} <i>Board</i>
GEORGE C. SKILTON,	
J. FRANK WELLINGTON,	
	} <i>of</i>
	} <i>Health.</i>

We are pleased to note that since Jan. 1, 1888, the prevalence of this disease has been very much less than in the preceding three months.

DIPHTHERIA. — Diphtheria has not been so prevalent as in 1886. In that year the number of cases reported was 91, and the number of deaths 20. In 1887 only 44 cases were reported, with 11 deaths.

We apply the same rules in dealing with this disease as in the case of scarlet fever, except that children are kept out of school but two weeks after the commencement of the last case in the house instead of four; and, in addition, the premises are inspected, and any sanitary defects noted are required to be remedied.

TYPHOID FEVER. — Fifty-one cases of typhoid fever were reported, and 11 deaths. Twenty-six of these cases occurred in September, October and November, and the only one reported after Nov. 25 was on Dec. 5.

An inspection is made of the premises wherever a case is reported, in order that sanitary defects may be remedied, but we have made no other rules in relation to this disease.

TABLES. — We continue, in this report, tables of cases of scarlet fever, diphtheria, and typhoid fever, and deaths from the same, and also the inspector's tabulated report of the sanitary condition of premises visited by diphtheria.

Number of Family.	Nationality.	Occupation of Head of Family.	Number of Patient.	Sex of Patient.	Age of Patient.	Date of Sickness.	Result.	District.	Soil.	Locality.	House Drainage.	Condition of Cellar.	Privy.	Remarks.
1	American . .	Salesman	1	Female .	13	January .		10	Clayey gravel .	Fair . .	Drainage defective	Dry		House drainage not ventilated.
2	American . .	Plumber	2	Female .	5	January .		9	Clayey gravel .	Fair . .	Waste-pipe not trapped . . .	Damp		House drainage not ventilated.
3	American . .	Grocer	3	Female .	2	January .	Fatal . .	3	Sand	Fair . .		Dry		House drainage not ventilated.
4	American . .	Provision	4	Female .	3	January .	Fatal . .	4	Gravel	Fair . .	Drainage defective; into cess-pool	Damp		House drainage not ventilated.
5	German . . .	Baker	5	Male . .	5	February .		1	Gravel	Fair . .	Waste-pipe not trapped . . .	Damp		House drainage not ventilated.
6	Irish	Laborer	6	Male . .	2	February .	Fatal . .	6	Clay	Low . .		Damp		House drainage not ventilated.
7	American . .	Merchant	7	Male . .	1	February .		10	Clayey gravel .	Fair . .	Waste-pipe defective	Dry		House drainage not ventilated.
8	American . .	Editor	8	Male . .	6	February .		6	Clayey gravel .	Good . .	Satisfactory			House drainage not ventilated.
9	Irish	Pedler	9	Male . .	38	February .		6	Clayey gravel .	Fair . .	Waste-pipe not trapped; drain-pipes defective	Damp		House drainage not ventilated.
10	American . .	Salesman	10	Male . .	6	March . .		1	Clayey gravel .	Fair . .	Drain-pipes defective			House drainage ventilated.
11	German . . .	Laborer	11	Male . .	37	March . .		7	Gravel	Good . .	Connection of waste and drain pipes defective	Damp		House drainage not ventilated.
12	Irish	Laborer	12	Male . .	2	March . .		1	Clayey gravel .	Fair . .	Waste-pipe not trapped . . .	Damp		House drainage not ventilated.
13	Irish	Laborer	13	Male . .	1	April . . .	Fatal . .	4	Gravel	Fair . .	Waste-pipes not trapped . . .	Damp		House drainage not ventilated.
14	Irish	Laborer	14	Female .	2½	April . . .		4	Gravel	Fair . .	Waste-pipes not trapped . . .	Damp		House drainage not ventilated.
15	Irish	Laborer	15	Male . .	4	April . . .		4	Sand			Damp		House drainage not ventilated.
16	American . .	Salesman	16	Male . .	6	April . . .		2	Gravel	Good . .	Waste-pipes not trapped . . .	Dry		House drainage not ventilated.
17	American . .	Clerk	17	Female .	14	April . . .		5	Gravel	Good . .				House drainage not ventilated.
18	American . .	Salesman	18	Female .	6	May . . .		9	Gravel	Good . .				House drainage not ventilated.
19	Irish	Laborer	19	Female .	7	May . . .		7	Clayey gravel .	Fair . .	Waste-pipes not trapped; drain-age defective	Damp and offensive odor in cellar.		House drainage not ventilated.
20	American . .	Salesman	20	Male . .	10	May . . .		1	Gravel	Fair . .	Waste-pipes not trapped . . .	Dry		House drainage not ventilated.
21	American . .	Car Driver . . .	21	Female .	12	May . . .		2	Gravel	Good . .	Waste-pipes not trapped . . .	Damp		House drainage not ventilated.
22	Irish	Laborer	22	Female .	8	June . . .		2	Gravel	Good . .	Waste-pipes not properly trapped	Damp		House drainage not ventilated.
23	Irish	Laborer	23	Female .	1	October .	Fatal . .	4	Gravel	Fair . .	Connection of drain-pipes defective	Damp		House drainage not ventilated.
24	Irish	Marble Cutter . .	24	Female .	4	September.	Fatal . .	5	Clayey gravel .	Good . .		Damp		House drainage not ventilated.
25	American . .	Laborer	25	Male . .	8	October .		5	Clayey gravel .	Good . .				House drainage not ventilated.
26	American . .	Porter	26	Female .	4	October .	Fatal . .	4	Gravel	Good . .	Same premises as family No. 21.			House drainage not ventilated.
27	American . .	Salesman	27	Male . .	4	October .	Fatal . .	7	Gravel	Good . .	Defect in drain-pipe in cellar .	Dry		House drainage not ventilated.
28	American . .	Salesman	28	Male . .	12	October .	Fatal . .	10	Gravel	Fair . .				House drainage not ventilated.
29	American . .	Salesman	29	Female .	39	October .		10	Gravel	Fair . .				House drainage not ventilated.
30	American . .	Salesman	30	Male . .	9 months.	November.		30	Male . .	9 months.	November.			House drainage not ventilated.
31	American . .	Laborer	31	Female .	10	November.		10	Female .	10	November.			House drainage not ventilated.
32	American . .	Freight Agent . .	32	Male . .	7	November.	Fatal . .	1	Gravel	Fair . .	Drainage defective	Damp		House drainage not ventilated.
33	American . .	Freight Agent . .	32	Male . .	7	November.	Fatal . .	1	Gravel	Fair . .	Drain-pipes defective; waste-pipe not trapped	Damp		House drainage not ventilated; 3 fatal cases of scarlet fever after this case of diphtheria.
34	Irish	Widow	33	Female .	7	November.		1	Clayey gravel .	Fair . .	Connection of drain-pipes defective	Damp		House drainage not ventilated.
35	American . .	Passenger Agent .	34	Male . .	3	November.		5	Gravel	Good . .	Satisfactory			House drainage ventilated.
36	Canadian . .	Furniture business,	35	Female .	8	November.		5	Gravel	Good . .	Drain-pipes defective; waste-pipes not trapped	Dry		House drainage not ventilated.
37	American . .	Carver	36	Female .	38	November.		2	Gravel	Good . .	Waste-pipes not trapped . . .	Damp		House drainage not ventilated.
38	American . .	Salesman	37	Female .	17	December .		4	Gravel	Fair . .				House drainage not ventilated.
39	American . .	Salesman	38	Female .	21	December .		5	Clayey gravel .	Good . .	Connection of drain-pipes defective	Damp		House drainage not ventilated.
40	Irish	Widow	39	Female .	12	December .		1	Gravel	Fair . .	Waste-pipe not trapped . . .	Damp		House drainage not ventilated.
41	American . .	Widow	40	Female .	25	December .		3	Sand	Good . .				House drainage not ventilated.
42	Irish	Laborer	41	Male . .	11	December .		1	Clayey gravel .	Fair . .	Waste-pipe not trapped . . .	Damp		House drainage not ventilated.
43	American . .	Salesman	42	Male . .	9	December .	Fatal . .	5	Clayey gravel .	Good . .	Satisfactory			House drainage ventilated.
44	American . .	Salesman	43	Female .	2	December .	Fatal . .							House drainage not ventilated. Stable adjoining house; offensive odor in chamber from same.
38	American . .	Salesman	44	Female .	3	May . . .		5	Gravel	Fair . .	Waste-pipes not trapped . . .			

SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER REPORTED IN 1887.

MONTHS.	SCARLET FEVER.			DIPHTHERIA.			TYPHOID FEVER.		
	Cases reported.	Number of deaths.	Percentage of deaths.	Cases reported.	Number of deaths.	Percentage of deaths.	Cases reported.	Number of deaths.	Percentage of deaths.
January	24	1	4	4	2	50	-	-	-
February	10	-	-	5	1	20	7	-	-
March	19	1	5	3	-	-	5	3	60
April	16	-	-	5	1	20	1	1	100
May	3	1	33	5	-	-	-	-	-
June	3	1	33	1	-	-	3	-	-
July	1	-	-	-	-	-	4	1	25
August	3	-	-	-	-	-	4	2	50
September	5	-	-	1	1	100	13	1	8
October	19	6	32	6	3	50	7	1	14
November	46	11	24	7	1	14	6	2	33
December	53	10	19	7	2	29	1	-	-
Total	202	31	15	44	11	25	51	11	22

DEATHS FROM SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER IN THE LAST TEN YEARS.

MONTHS.	SCARLET FEVER.										DIPHTHERIA.								TYPHOID FEVER.											
	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.
January . . .	-	4	2	-	-	2	-	2	-	1	4	6	7	7	11	2	1	2	1	2	-	-	-	-	1	2	1	2	-	-
February . . .	-	1	1	-	1	-	-	1	-	-	4	4	-	4	5	3	-	2	2	1	-	-	-	-	1	-	1	-	1	-
March	-	1	1	-	-	1	-	1	1	1	5	-	-	7	7	3	3	1	-	-	-	-	-	2	1	-	-	-	-	2
April	1	2	-	-	-	1	-	5	-	1	1	1	1	2	8	6	1	2	1	1	-	-	-	-	1	-	-	-	-	1
May	-	-	-	1	-	-	-	-	-	-	-	-	-	3	5	1	2	2	4	-	-	-	-	-	-	1	-	1	1	1
June	-	1	-	-	-	1	-	1	1	1	1	1	-	3	2	3	1	2	2	-	-	-	-	1	-	1	1	1	1	1
July	-	2	-	-	-	-	2	-	-	-	2	-	-	2	1	3	2	2	1	-	-	-	-	-	-	1	1	1	1	1
August	-	-	-	-	1	-	-	-	-	-	1	4	-	3	-	1	-	2	-	-	2	-	1	-	-	1	1	1	1	2
September . .	-	-	2	-	-	1	1	1	-	-	1	2	-	2	1	1	4	3	2	1	1	1	1	-	1	3	2	2	3	-
October	3	-	-	-	-	1	1	-	6	2	2	5	2	6	1	2	2	1	2	3	1	-	2	2	1	3	-	1	2	1
November . . .	4	3	-	-	-	-	3	2	-	11	1	2	1	2	7	1	4	5	2	1	-	-	1	1	1	-	-	2	1	1
December . . .	7	2	-	-	2	-	1	1	-	10	5	4	8	3	4	5	1	4	3	2	1	-	1	1	-	1	1	-	-	-
Total	15	16	6	1	4	6	8	14	3	31	27	29	19	44	52	31	21	28	20	11	5	3	7	8	8	13	8	11	3	11

DISTRICTS.

We publish herewith a map of the city, showing the ten health-districts into which the city was divided by the Board of Health of 1878, and the locations of sewers Jan. 1, 1888. We have discontinued the custom, heretofore followed, of showing the locations of cases of dangerous diseases reported, as its practical usefulness may be questionable, and several objections have been made to it.

Tables of sanitary defects, sickness, and deaths in the several districts are presented similar to those given last year.

We have estimated the population in the same manner as in previous years, taking the last census (1885) as a basis, and presuming that it was distributed throughout the several districts in proportion to the number of poll taxes assessed, and that the percentage of increase in population has been the same as in the number of polls.

• MAP OF •
• SOMERVILLE •
• 1888 •

0 100 200 300 400 500
• SCALE •
1000 2000 3000 4000 5000
FEELE

SHOWING HEALTH DISTRICTS.



Sewers shown thus: - - - - -

TABLE OF DEATHS IN EACH DISTRICT DURING THE LAST TEN YEARS, EXCLUSIVE OF DEATHS IN THE McLEAN ASYLUM.

Districts	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	Entire City
Area	337 A.	107 A.	93 A.	171 A.	361 A.	285 A.	194 A.	482 A.	174 A.	456 A.	2,660 A.
In 1887.	6,200	6,049	2,345	4,160	6,502	1,437	3,552	1,056	1,889	833	34,023
	Population . .	936	871	367	643	1,046	327	572	205	352	175
Average in each dwelling.	6.6	6.9	6.4	6.4	6.2	4.4	6.2	5.1	5.4	4.8	6.2
YEAR.	No. of Deaths.	No. of Deaths.	No. of Deaths.	No. of Deaths.	No. of Deaths.	No. of Deaths.	No. of Deaths.	No. of Deaths.	No. of Deaths.	No. of Deaths.	No. of Deaths.
	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.	Rate per 1,000.
1878	92	50	32	53	53	24	32	15	17	7	375
1879	92	50	29	62	77	14	22	14	16	9	385
1880	104	56	34	55	70	30	32	19	12	11	423
1881	111	64	41	58	72	36	38	22	19	8	445
1882	119	67	42	60	76	40	43	11	28	9	464
1883	138	59	49	66	76	32	51	17	27	8	482
1884	148	55	42	52	69	32	53	14	25	11	531
1885	152	56	40	72	78	31	53	13	23	11	531
1886	115	51	38	59	85	37	44	11	20	19	479
1887	182	54	45	81	87	37	62	20	26	14	606
Ten years	1,253	552	392	600	729	313	412	152	207	107	4,717
	25	11	20	18	14	26	14	18	13	16	17

TABLE SHOWING THE FIVE PRINCIPAL CAUSES OF DEATH IN SOMERVILLE
IN 1887, WITH THE NUMBER AND RATE IN EACH DISTRICT.

DISTRICTS.	CONSUMPTION.		PNEUMONIA.		CHOLERA INFANTUM.		PREMATURE BIRTH AND INFANTILE DEBILITY.		BRIGHT'S DISEASE.	
	No. of Deaths.	No. per 1,000 of pop.	No of Deaths.	No. per 1,000 of pop.	No. of Deaths.	No. per 1,000 of pop.	No. of Deaths.	No. per 1,000 of pop.	No. of Deaths.	No per 1,000 of p. p.
I.	27	4.35	29	4.68	13	2.10	16	2.58	8	1.29
II.	9	1.47	5	0.83	1	0.17	2	0.33	5	0.83
III.	7	2.99	7	2.99	3	1.28	5	2.13	1	0.43
IV.	16	3.85	13	3.12	6	1.44	3	0.72	2	0.48
V.	10	1.54	7	1.08	9	1.38	4	0.62	8	1.23
VI.	8	5.57	1	0.70	7	4.87	4	2.78	3	2.09
VII.	8	2.25	7	1.97	2	0.56	2	0.56	6	2.25
VIII.	2	1.89	2	1.89	-	-	-	-	-	-
IX.	2	1.06	7	3.71	-	-	-	-	2	1.06
X.	3	3.60	2	2.40	1	1.20	1	1.20	-	-
Total	92	2.70	80	2.35	42	1.23	37	1.09	35	1.03

TABLE OF SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER IN EACH DISTRICT IN 1887.

DISTRICTS.	SCARLET FEVER.				DITHTERIA.				TYPHOID FEVER.			
	Cases reported.	Deaths.	Cases per 1,000 of pop.	Deaths per 1,000 of pop.	Cases reported.	Deaths.	Cases per 1,000 of pop.	Deaths per 1,000 of pop.	Cases reported.	Deaths.	Cases per 1,000 of pop.	Deaths per 1,000 of pop.
I.	65	13	10.48	2.10	9	2	1.45	0.32	17	4	2.74	0.64
II.	11	-	1.82	-	4	-	0.66	-	7	1	1.16	0.17
III.	9	4	3.84	1.71	2	1	0.85	0.43	2	1	0.85	0.43
IV.	16	4	3.85	0.96	9	5	2.16	1.20	5	2	1.20	0.48
V.	25	4	4.00	0.62	10	2	1.54	0.31	6	2	0.93	0.31
VI.	10	1	6.96	0.70	2	-	1.39	-	3	-	2.08	-
VII.	30	2	8.45	0.56	3	1	0.85	0.28	5	1	1.41	0.28
VIII.	18	2	17.05	1.89	-	-	-	-	4	-	3.79	-
IX.	11	1	5.82	0.53	1	-	0.53	-	2	-	1.06	-
X.	7	-	8.40	-	4	-	4.80	-	-	-	-	-
Total	202	31	5.94	0.91	44	11	1.29	0.32	51	11	1.20	0.32

REPORT OF THE BOARD OF HEALTH.

RATES PER THOUSAND OF POPULATION OF CASES OF SCARLET FEVER, DIPHTHERIA, AND TYPHOID FEVER REPORTED, AND
OF DEATHS FROM THE SAME, IN THE LAST SEVEN YEARS.

DISTRICTS.	1881.			1882.			1883.			1884.			1885.			1886.			1887.			Average for Seven Years.		
	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Typhoid Fever.
I.	{ Cases . Deaths, -	{ 8.75 3.54	{ 9.58 0.42	{ 1.00 -	{ 7.17 2.79	{ 2.39 -	{ 1.91 0.38	{ 3.25 0.57	{ 4.98 0.96	{ 11.35 0.55	{ 5.76 1.26	{ 1.26 0.18	{ 5.67 0.37	{ 5.12 2.20	{ 1.83 0.55	{ 2.25 -	{ 2.59 0.52	{ 0.86 0.17	{ 10.48 2.10	{ 1.45 0.32	{ 2.74 0.64	{ 4.88 0.52	{ 4.65 1.52	{ 3.21 0.42
II.	{ Cases . Deaths, 0.21	{ 4.27 0.62	{ 0.42 0.21	-	{ 2.04 0.20	{ 0.80 0.40	{ 3.53 0.20	{ 4.32 0.98	{ 0.98 -	{ 2.40 -	{ 1.11 0.37	{ 1.66 0.19	{ 2.63 0.19	{ 1.50 0.41	{ 1.50 0.19	{ 1.77 -	{ 2.12 0.35	-	{ 1.82 -	{ 0.66 -	{ 1.16 0.17	{ 2.06 0.08	{ 2.19 0.40	{ 0.86 0.16
III.	{ Cases . Deaths, -	{ 11.01 4.55	{ 2.75 0.55	{ 3.69 -	{ 7.90 3.16	{ 0.53 0.53	{ 3.04 -	{ 6.58 1.52	{ 1.01 -	{ 10.90 0.93	{ 4.76 0.48	{ 1.91 -	{ 8.70 0.97	{ 1.45 0.48	{ 0.48 -	{ 5.03 0.46	{ 0.46 0.46	-	{ 3.84 1.71	{ 0.86 0.43	{ 0.85 0.43	{ 5.32 0.62	{ 4.42 1.45	{ 1.04 0.21
IV.	{ Cases . Deaths, -	{ 6.83 1.86	{ 2.48 0.93	{ 1.78 0.59	{ 3.56 0.59	{ 1.78 0.30	{ 0.29 -	{ 5.42 0.29	{ 1.71 0.57	{ 8.86 -	{ 2.15 0.27	{ 0.54 0.54	{ 9.54 0.55	{ 1.64 1.09	{ 1.36 0.82	{ 4.38 0.26	{ 0.77 0.26	{ 0.77 0.26	{ 3.85 0.96	{ 2.16 1.20	{ 1.20 0.48	{ 4.28 3.50	{ 3.07 0.78	{ 1.36 0.54
V.	{ Cases . Deaths, -	{ 1.98 0.40	{ 0.79 -	{ 1.90 0.38	{ 8.54 2.28	{ 0.95 0.19	{ 2.74 -	{ 7.67 1.46	{ 1.64 0.73	{ 2.58 -	{ 3.43 0.52	{ 1.20 0.34	{ 6.98 0.17	{ 2.97 0.17	{ 0.17 0.17	{ 3.46 -	{ 4.78 1.65	-	{ 4.00 0.62	{ 1.54 0.31	{ 0.93 0.31	{ 3.26 0.17	{ 4.31 0.95	{ 0.85 0.25
VI.	{ Cases . Deaths, -	{ 8.09 2.70	-	{ 1.72 -	{ 16.32 7.73	{ 0.86 -	{ 13.22 0.83	{ 6.61 1.65	{ 3.31 0.83	{ 26.44 1.56	{ 12.44 4.67	-	{ 10.27 -	{ 16.59 3.16	{ 0.79 0.75	{ 2.99 0.75	{ 1.49 -	-	{ 6.96 0.70	{ 1.39 -	{ 2.08 -	{ 8.91 0.56	{ 8.68 2.70	{ 1.01 0.01
VII.	{ Cases . Deaths, -	{ 6.18 0.73	{ 0.36 0.36	{ 1.39 -	{ 7.30 2.08	{ 0.35 -	{ 3.68 0.67	{ 5.34 1.67	{ 0.33 -	{ 10.06 -	{ 3.14 0.31	{ 0.63 -	{ 7.34 1.60	{ 3.51 1.28	{ 1.60 0.64	{ 5.43 0.30	{ 4.22 0.30	{ 0.60 0.30	{ 8.45 0.56	{ 0.85 0.28	{ 1.41 0.28	{ 5.47 0.41	{ 4.19 0.91	{ 0.77 0.28
VIII.	{ Cases . Deaths, -	{ 13.41 3.66	{ 2.44 -	-	{ 10.50 1.17	{ 3.50 1.17	{ 3.37 -	{ 7.86 -	-	{ 17.95 1.06	{ 3.17 -	{ 2.11 1.06	{ 7.51 -	{ 7.51 -	{ 6.44 1.07	{ 1.01 -	-	-	{ 17.05 1.89	-	{ 3.79 -	{ 7.04 0.46	{ 5.66 0.61	{ 2.60 0.77
IX.	{ Cases . Deaths, -	{ - 0.69	{ 1.37 -	-	{ 1.31 0.65	-	{ 2.51 -	{ 6.28 2.51	{ 0.63 0.63	{ 7.09 -	{ 3.55 -	{ 1.18 0.59	{ 22.81 -	{ 3.60 -	{ 1.20 2.72	{ 6.24 -	{ 3.97 0.57	{ 1.70 -	{ 5.82 0.53	{ 0.53 -	{ 1.06 -	{ 5.82 0.09	{ 2.83 0.51	{ 1.03 0.34
X.	{ Cases . Deaths, -	{ 4.65 1.55	{ - -	{ 7.42 -	{ 4.45 -	{ 7.42 2.96	-	{ 2.85 -	-	{ 10.74 -	-	{ 1.34 -	{ 9.55 1.36	{ 4.09 -	-	{ 5.15 -	{ 10.30 1.29	-	{ 8.40 -	{ 4.80 -	-	{ 6.03 0.19	{ 4.47 0.39	{ 1.75 0.58
City.	{ Cases . Deaths, 0.04	{ 0.95 1.71	{ 2.69 0.30	{ 1.42 0.15	{ 6.24 1.39	{ 1.38 0.29	{ 2.93 0.21	{ 5.44 1.08	{ 1.88 0.45	{ 8.21 0.26	{ 3.64 0.69	{ 1.18 0.26	{ 7.54 0.47	{ 3.67 0.33	{ 1.37 0.37	{ 3.47 0.09	{ 2.87 0.63	{ 0.63 0.09	{ 5.94 0.91	{ 1.29 0.32	{ 1.20 0.32	{ 4.41 0.32	{ 3.99 0.99	{ 1.44 0.32

NUISANCES ABATED IN EACH DISTRICT IN 1887.

DISTRICT. Population (estimated.)	I. 6,200	II. 6,049	III. 2,345	IV. 4,160	V. 6,502	VI. 1,437	VII. 3,552	VIII. 1,056	IX. 1,889	X. 833	Total. 34,023
Cellar damp	9	2	4	1	10	3	2	-	4	-	35
Cesspool defective	1	-	-	-	-	-	-	-	-	-	1
“ offensive	1	-	-	1	-	-	1	-	1	-	4
“ overflowing	-	-	1	1	1	1	1	-	-	1	6
Connections of drainage pipes defective	8	2	1	2	6	1	5	-	6	-	31
Drainage defective	10	2	4	1	3	1	7	1	2	1	32
“ emptying in cellar	5	-	2	-	-	-	5	-	-	-	12
“ emptying on surface,	2	1	-	3	2	2	-	3	-	-	13
“ not ventilated	10	5	2	9	11	3	6	2	8	1	57
Drain-pipe clogged	-	1	1	4	-	-	-	-	-	-	6
“ defective	6	3	-	1	5	-	1	1	3	-	20
Furnace without cold-air box,	-	-	-	-	1	-	-	-	-	-	1
Hennery offensive	-	-	-	1	1	-	-	-	1	-	3
Hens kept in cellar	-	-	-	-	-	-	-	-	1	-	1
Horse kept in L of house	1	-	-	-	-	-	-	-	-	-	1
Manure exposed and offensive,	11	1	-	3	3	3	2	-	1	-	24
No house-drainage	1	2	-	-	-	-	-	-	-	-	3
Offal on land	4	-	1	1	-	-	-	1	1	-	8
Offal-barrel offensive	-	1	-	-	-	-	-	-	-	-	1
Offensive odor in and about dwellings	4	2	3	2	4	2	3	-	2	-	22
Offensive odor from factory	1	-	-	-	-	-	-	-	-	-	1
Opening in drain-pipe in cellar	2	-	-	-	1	-	-	-	2	-	5
Premises filthy	3	-	-	-	-	-	-	1	-	1	5
“ without privy or water-closet	-	-	-	-	-	-	-	1	-	-	1
Privy-vault defective	4	-	-	-	-	-	-	-	-	-	4
“ full	14	1	-	5	1	2	1	-	-	-	24
“ offensive	34	8	3	17	8	5	2	2	-	1	80
Slops thrown on surface	2	-	1	1	-	-	-	-	1	-	5
Stable and stable premises filthy and offensive	4	3	1	2	5	1	1	-	1	-	18
Stagnant water in house- cellar	3	-	1	1	3	-	-	-	1	-	9
Stagnant water on surface	3	-	-	2	-	1	2	-	4	1	13
Waste-pipe defective	4	-	-	-	2	-	1	-	1	1	9
“ not trapped	40	10	3	14	24	4	6	4	16	-	121
Water-closet defective	1	1	-	1	5	-	1	-	2	-	11
“ insufficiently sup- plied with water	2	1	-	-	4	-	3	-	3	1	14
Water-closet not supplied with water	-	-	-	-	-	1	-	-	-	-	1
Water-closet offensive	5	9	1	4	11	1	5	1	4	-	41
Wooden waste-pipes and drains	6	-	-	-	-	2	-	-	1	-	9
Total	201	55	29	77	111	33	55	17	66	8	652

APPROPRIATION FOR HEALTH DEPARTMENT AND EXPENDITURES THEREFROM, 1887.

Appropriation	\$4,000 00
Receipts for permits to keep swine and goats and to collect grease	254 00
	<hr/>
Total credit	\$4,254 00

Expenditures : —

For inspector's salary	\$1,000 00
“ collecting ashes	1,900 01
“ “ offal	900 00
“ burying dead animals	70 00
“ oil of peppermint	48 10
“ vaccine virus	13 00
“ fumigating (sulphur, pans, etc.),	10 98
“ abating nuisances (including \$83.37 for catch-basin, Columbia Street)	90 37
“ care of ash-dumps	80 94
“ investigating cause of nuisance at Bridge Street sewer outlet	288 41
“ books, stationery, and printing	112 95
“ serving notices	2 16
“ carriage hire	23 50
“ rent of post-office box	3 00
	<hr/>
Total debit	4,543 42
	<hr/>
Amount overdrawn	\$289 42

THOMAS M. DURELL, M.D.
GEO. C. SKILTON.
J. F. WELLINGTON.

INDEX

TO THE REPORT OF THE BOARD OF HEALTH.

	PAGE
Ashes	201
Dangerous diseases	204
Death-rate, 1887 (at end of mortality table)	204
Deaths	203
Diphtheria	208
Districts	210
Expenses	215
Goats	200
Grease	201
House offal	202
Map	210A
Manure	201
Membership	197
Night-soil	202
Nuisances	197
Organization	197
Pedlers	201
Permits	200
Population (at end of mortality table)	204
Private streets	199
Scarlet fever	205
Sewers	202
Slaughter-houses	199
Swine	200
Typhoid fever	208

TABLES.

Diphtheria in 1887, inspector's report	208A
Mortality in Somerville, 1887	203
" rates of, in districts, in last ten years	211
Nuisances abated, 1887	198
" " in districts, 1887	214
Principal causes of death, in districts, 1887	212
Scarlet fever, diphtheria, and typhoid fever, 1887	209
" " " " deaths in last 10 years	209
" " " " in districts, 1887	212
" " " " " " in last 7 years	213

REPORT OF THE CITY PHYSICIAN.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Feb. 1, 1888.

Referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, *Clerk pro tem.*

IN COMMON COUNCIL, Feb. 9, 1888.

Concurred in.

CHAS. S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

To his Honor the Mayor and the City Council.

GENTLEMEN, — I respectfully present my annual report as City Physician.

I have made during the year 1,607 visits; of these, 301 were surgical, and 41 were made to persons at the police station.

I have viewed the bodies, and given certificates of the probable cause of death, of 8 persons who died unattended by a physician. I have examined 15 persons supposed to be insane, and have given certificates in 9 cases. I have, under the Civil Service, examined 11 applicants for the police force.

Respectfully submitted,

THOS. M. DURELL, M.D.,
City Physician.

JAN. 28, 1888.

REPORT

OF THE

TRUSTEES OF THE PUBLIC LIBRARY.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Jan. 11, 1888.

Referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

DOUGLAS FRAZAR, *Clerk pro tem.*

IN COMMON COUNCIL, Jan. 11, 1888.

Concurred in.

CHAS. S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

DEC. 31, 1887.

To the City Council:—

The Trustees of the Public Library submit their report for the current year. No events of especial importance have occurred since our last report. There has been no abatement of interest on the part of our citizens in the institution under our charge, as is clearly shown by the librarian's report, which we transmit and request to have printed, as it contains information of importance and value which should be preserved as the record of a successful year.

Work has been commenced upon a new catalogue, the system adopted being that in use by the city of Boston, which is generally admitted to be the best for a library of the character of our own. It will be completed during the first half of next year, and will be found much more convenient than the old ones now in use.

The chief labor of the Trustees during the year has consisted in the selection and purchase of new books, which we have endeavored to perform in a way that shall be useful to our patrons and the permanent good of the library.

The growing interest in all subjects relating to the arts, sciences, and invention, has induced the Trustees to expend quite a proportion of the appropriation to secure books that would be of service to all who are, or may become, interested in these important branches of the public education. Most of these additions have been placed in the reference room, where they can be examined at any time; and we desire to especially call the attention of the public to them as worthy of the attention of all who are interested in these important subjects. We bespeak for the future the same liberality which the City Council has thus far shown towards an institution second in importance to none in our city.

CHAS. S. LINCOLN, *Chairman.*

REPORT OF THE LIBRARIAN.

The library is steadily growing in numbers and value, and, with the continued support of our City Fathers, each succeeding year will show its increasing usefulness.

Few libraries are so entirely provided for by a city government as our own, and as we have no bequests or trust funds to fall back upon, we depend entirely upon the generosity of the city: yet where schools are supported on so liberal a scale, the Public Library is in little danger of falling behind for want of ample support.

Although no supplement has been issued within the past year on account of our intended revision of the catalogue, bulletins, containing lists of our accessions, have been posted every other week in the delivery room, and also printed in our local paper to bring them to the notice of those unable to visit the library. We trust that this has been found useful.

Nothing shows more plainly the use of a library than the wear and tear of the books; and when those of the best class are sent to the bindery for repair, there is more cause of satisfaction in the evidence of their use, than if they had remained unused and uninjured on the shelves.

The committee have on this account duplicated the entire works of Scott, Irving, and Dickens.

The "Child's History of England," with its four duplicates, is as much read as works of fiction; while Higginson's and Barnes's histories of the United States are in constant demand. In biography, Abbott's histories are favorites, the "Life of Napoleon" taking the lead, while "Mary Queen of Scots" is more called for than "Elizabeth." I am not as often asked for "an exciting book" as formerly, as books of travel and adventure, with which we are well supplied, seem to supply that want.

Three hundred and two books have been bound, including peri-

odicals, which were never so much called for before. Many readers have gone through complete sets of these bound periodicals.

To some this seems almost a waste of time; but "Harper's Monthly," for instance, contains perhaps all that a busy person can find time for, with its excellent articles on every subject, as well as its historical and literary record. It is a library in itself.

Continued satisfaction is expressed in the selection of the books; and one reader says, "Your library is a continual surprise to me." We are now supplied with the new edition of "Appleton's Cyclopædia," and "Annals," and also "Appleton's New American Biography" as far as published.

We have received a donation of fifty books from our former townsman, Mr. Isaac Pitman, and three from Mr. J. S. Hayes.

The library was open 306 days; the largest number of books given out on any one day was 722; the smallest number on any day was 83.

During the year 1,407 new names were registered.

The number of books delivered for home use was 79,062, and for reference, 1,497, making a total of books *used* 80,559. The number of books in the library is 14,095, including government publications just received.

It is with regret that we lose the services of Miss Stevens, who has been connected with the library almost from the beginning; the faithful discharge of whose duties has been appreciated by all, and whose labors have helped greatly in carrying on the numerous duties of the library.

H. A. ADAMS, *Librarian*.

REPORT
OF THE
COMMITTEE ON HIGHWAYS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Dec. 30, 1887.

Ordered to be filed with the city clerk for presentation to the next city council, to be printed in the annual reports. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk*.

IN COMMON COUNCIL, Dec. 30, 1887.

Concurred in.

DOUGLAS FRAZAR, *Clerk*.

CITY OF SOMERVILLE.

IN COMMITTEE ON HIGHWAYS, Dec. 31, 1887.

To the City Council of Somerville:—

The following is respectfully submitted as the final report of this committee for the year ending Dec. 31, 1887:—

HIGHWAYS ACCOUNT.

CREDIT.

Appropriation	\$38,000 00
Receipts and credits:—	
For labor and materials furnished prior to Jan. 1, 1887, the bills for which remained uncollected that day	\$195 71
rent of dwellings at City Farm	\$136 00
less repairs and water rates	53 83
	<hr/>
	82 17
net profit on city teams, tools, and materials	148 59
	<hr/>
	426 47
Value of materials on hand Jan. 1, 1887	1,226 15
Value of property on hand Jan. 1, 1887	8,240 75
	<hr/>
Total credit	\$47,893 37

DEBIT.

Expenditures:—

For laying out of Aldrich Street (advertising notice and recording release)	\$11 65
	<hr/>
<i>Amount carried forward</i>	\$11 65

<i>Amount brought forward</i>	\$11 65	
For construction of westerly end of Berkeley Street (laid out in 1886), . .	839 50	
laying out and construction of Chapel Street	282 96	
construction of Cherry Street, from Summer Street to Highland Ave- nue (laid out in 1885)	871 90	
laying out of Meacham Street, from Cambridge line to north line of Orchard Street (advertising notice and recording release)	11 05	
laying out of Mystic Street, Ward Two (advertising notice and re- cording release)	12 10	
laying out of Orchard Street, from Dover Street to Meacham Street (advertising notice and recording release)	10 40	
construction of Preston Street (laid out in 1886)	301 86	
changing easterly line of Quincy Street at Summer Street	41 87	
street crossings	1,208 76	
street signs	79 59	
clearing and repairing streets after the laying of horse railroad tracks :		
Broadway, from Cross Street to Temple Street	\$208 59	
Cross Street, from Broadway to Medford Street	336 77	
Highland Avenue, from Med- ford Street to Davis Square .	3,560 73	
Medford Street, from Washing- ton Street to Highland Ave- nue	132 87	
Pearl and Medford Streets, from Cross Street to Central Street,	2,473 74	
<i>Amounts carried forward</i>	\$6,712 70	\$3,671 64

<i>Amounts brought forward</i>	\$6,712 70	\$3,671 64
Washington Street, from Union Square to Tufts Street.	50 28	
	<hr/>	6,762 98
repairs and improvements of streets and paving of gutters in connection with the setting of edgestones :		
Chapel Street, both sides, from Elm Street to Chandler Street, paving	\$167 39	
Elm Street, west side, from railroad to Chapel Street, paving	209 97	
Elm Street, south side, from Russell Street to Chester Street, paving	113 92	
Glen and Oliver Streets, at F. A. Titus's estate, paving	108 40	
Holland Street, north side, from railroad to Wallace Street, paving	84 75	
Mystic Avenue, north side, from Boston line to Canal Street, paving	162 17	
repairs	277 01	
Quincy Street, both sides, from Somerville Avenue to Summer Street on west side, and to land formerly of Ireland on east side, paving	483 42	
repairs	416 74	
Orchard Street, north side, from Chester Street westerly, paving	55 17	
Porter Street, both sides, from Elm Street to Williams Court, paving	269 93	
repairs	407 14	
	<hr/>	<hr/>
<i>Amounts carried forward</i>	\$2,756 01	\$10,434 62

<i>Amounts brought forward</i>	. . . \$2,756 01	\$10,434 62
Prescott Street, both sides, from Summer Street to Highland Avenue, paving	783 12	
repairs	809 49	
School Street, west side, at O. S. Knapp's estate, paving .	29 15	
Summer Street, north side, at Charles Drouet's estate, pav- ing	46 47	
Walnut Street, west side, from Summit Avenue to Pleasant Avenue, paving	32 87	
Warren Avenue, west side, from Bow Street to Columbus Avenue, paving	192 51	
repairs	123 50	
	<hr/>	4,773 12
cost to city of sidewalks, the bricks and edgestones for which were furnished by the abutters . . . .	. . .	773 22
paving gutter, west side of Cherry Street, from Elm Street to Chest- nut Street . . . .	. . .	129 72
opening for Benton Avenue, with crossing, north side Summer Street . . . .	. . .	89 50
ordinary repairs of streets : —		
Beacon Street, west side, from North Cambridge line to Sac- ramento Street	\$1,207 52	
Bow Street, from Summer Street to Somerville Avenue . . .	171 79	
Broadway, south side, from Boston line to George Street,	281 15	
Broadway, north side, from Cross Street to Bond Street .	242 89	
Elm Street, from Russell Street to Chapel Street	208 29	
<i>Amounts carried forward</i>	. . . \$2,111 64	\$16,200 18

<i>Amounts brought forward</i>	\$2,111 64	\$16,200 18
Medford Street, from School Street to Sycamore Street	325 39	
Somerville Avenue, from East Cambridge line to Union Square	2,271 44	
Vinal Avenue, from Summer Street to Highland Avenue	258 02	
Walnut Street, from Summit Avenue to the Lowell Railroad	488 88	
Webster Avenue, from Union Square to Tremont Street	185 48	
general repairs	4,327 13	
		9,967 98
repairs of stone paving		479 33
repairs of brick sidewalks		560 91
clearing and repairing streets after the construction of sewers and catch-basins		283 99
cleaning streets		3,630 31
removing snow and ice, and care of slippery sidewalks		1,270 25
one-half cost of maintaining Middlesex Avenue bridge for the year 1886; the other half being paid by the town of Medford		402 38
planting trees furnished by citizens		71 51
trimming trees		174 40
overseeing water carts		150 77
clearing and fencing city lot, Elm Street		9 69
tax on Waltham gravel land	\$122 40	
less received for pasturage for 1886,	120 00	
		2 40
tax on Wakefield gravel land		26 94
tax on Winchester gravel land		10 69
dippers for W. C. T. U. fountain, Union Square		1 85
Evergreen Avenue extension, from Thurston Street to Sycamore Street, abatements and costs of suit		892 31
<i>Amount carried forward</i>		\$34,135 89

<i>Amount brought forward</i>	\$34,135 89
salary of superintendent	1,500 00
board of superintendent's horses	522 29
rent, etc., of superintendent's telephone . .	40 60
books, stationery, and printing	58 75
sundry small expenses	16 00
private work, etc., the bills for which remain uncollected	724 19
Value of materials on hand this day	1,122 25
Value of property on hand this day : —	
horses (20)	\$5,125 00
carts and implements used with horses	2,188 50
harnesses and horse clothing	619 55
stable utensils and property	172 00
stone crusher, engine, and fittings . .	1,096 75
tools, tool-chests, and tool-house . .	339 80
	<hr/> 9,541 60
Total debit	<hr/> \$47,661 57
Balance unexpended	<hr/> <hr/> \$231 80

In addition to the above, labor and materials have been furnished, and the Treasurer has received payment or credit for the same, as follows: —

Private parties, constructing driveways and sidewalks, etc.	\$443 65
Public grounds account, on Central Hill land and Broadway Park	451 52
Sidewalks account	619 31
Watering streets account, repairs around stand- pipes	12 66
Total	<hr/> <hr/> \$1,527 14

SIDEWALKS ACCOUNT.

CREDIT.

Appropriation	\$3,500 00	
Credit, — advertising paid for in 1886	30 60	
	<hr/>	
Total credit		\$3,530 60

DEBIT.

Expenditures : —

For Chapel Street sidewalks	\$474 04	
Elm Street sidewalk, north side	418 93	
Elm Street sidewalk, south side	336 13	
Elm Street sidewalk, west side	469 13	
Holland Street sidewalk	483 15	
Mystic Avenue sidewalk	320 68	
Porter Street sidewalks	615 41	
Prescott Street sidewalks	1,459 55	
Quincy Street sidewalks	878 59	
Warren Avenue sidewalk	763 24	
	<hr/>	
Total cost of sidewalks	\$6,218 85	
Less assessments	3,109 42	
	<hr/>	
Net cost to city		\$3,109 43
Advertising notice of hearing for sidewalk in Dane Street		11 20
Abatement of assessment		4 52
		<hr/>
Total debit		\$3,125 15
		<hr/>
Balance unexpended		\$405 45

We have also expended from miscellaneous account \$23.25 for tools for trimming trees.

NEW STREETS AND SIDEWALKS.

Three streets and two parts of streets have been accepted during the past year, as follows : —

- Aldrich Street, from the Lowell Railroad to Pearl Street.
- Chapel Street, from Elm Street to Chandler Street.

Mystic Street, from Somerville Avenue to Washington Street.

Meacham Street, from the northerly line of Orchard Street to the Cambridge line.

Orchard Street, from Dover Street to Meacham Street.

The narrow strip of land acquired by the city in 1886, between Quincy Street and the small portion of Prescott Street which lies south of Summer Street, has been laid out for highway purposes by changing the easterly line of Quincy Street so as to make it coincident with the westerly line of Prescott Street, and the roadway has been constructed; thus joining Prescott Street, south of Summer Street with Quincy Street, and adding very materially to the convenience and safety of public travel, at a very small expense, as the corner formed by this little piece of land at the junction of Summer and Quincy Streets was a very awkward one to turn, especially for a team going down the hill by way of Prescott and Quincy Streets.

Chapel Street has been constructed, and gravel sidewalks with edgestones have been made therein; and the westerly end of Berkeley Street, Cherry Street, between Summer Street and Highland Avenue, and Preston Street, which were accepted last year, have also been constructed.

Ten sidewalks have been constructed under the Sidewalks Act; and several have been made where the edgestones and bricks were furnished by the abutters, — all as shown by the accompanying tables.

HORSE RAILROADS.

Four and one-seventh miles of horse-railroad tracks have been laid in our streets during the year, entailing such a great amount of work in this department that we have been obliged to postpone other necessary repairs and improvements.

The additional track in Washington Street, between Union Square and Tufts Street, which was laid from Union Square to Mystic Street late last year, has been completed; and a second track has also been laid in Broadway, from Autumn Street to Temple Street.

The Somerville Horse Railroad Company has been granted locations this year as follows: —

Cross Street, from Broadway to Medford Street.

Medford Street, from Washington Street to Highland Avenue.

Highland Avenue, from Medford Street to Davis Square.

Pearl Street, from Cross Street to Medford Street.

Medford Street, from Pearl Street to Central Street.

Central Street, from Medford Street to Highland Avenue.

Tracks have been laid in all the locations except Central Street ; and all the tracks laid are being operated, except in Highland Avenue west of Central Street, Pearl Street, and Medford Street between Washington Street and Cross Street and between Pearl and Central Streets. The Board of Aldermen was assured by the president of the Consolidated Street Railway Company, which leased the tracks from the Somerville Company, that the tracks on Highland Avenue to Davis Square would be operated as soon as completed ; but the West End Street Railway Company, which has since absorbed the Consolidated, has not as yet fulfilled the promise.

GRAVEL.

In continuing the work at the Waltham gravel land, commenced by the highway committee of 1886, it was deemed essential to have a considerable quantity of earth removed, in order to reach an abundant supply of good gravel, and to shape the bank so that cars might be loaded conveniently. Accordingly, permission was given to the Fitchburg Railroad Company, by authority of the City Council, to remove not more than thirty thousand cubic yards of filling ; and by the same authority, a contract was made with said company to deliver, in Somerville, five thousand yards of gravel, for the sum of sixty cents per yard, the cars to be loaded and unloaded at the railroad company's expense. About fifteen thousand yards of filling have been removed, and thirty-seven hundred and eighty yards of gravel have been delivered upon the land owned by the railroad company on Dane Street.

RECOMMENDATIONS.

We repeat the recommendation made by former committees, that a portion of Somerville Avenue be paved every year. We should have commenced the work this year at Union Square, had not the grading and macadamizing of the streets where horse-railroad tracks have been laid taken so large a part of the appropriation. There is no satisfaction in placing macadam on this street,

as it is speedily crushed out of shape and ground into dust by the heavy teaming.

We recommend that the supervision of the watering-carts be no longer imposed upon the superintendent of streets, as his entire time is required in this department; and it is poor economy to hamper him with this extra duty in the busiest part of the year.

We are of the opinion that the shade trees in the streets should be placed in charge of the committee on public grounds, as that committee has more time to attend to them.

We also recommend that the drinking-fountains be committed to the care of the Water Board, as whatever work may be required upon them is done by the superintendent of water-works; and our duties have consisted mainly in approving the bills.

SCHEDULES.

Additional information as to the work performed is given in the following schedules : —

STREETS ACCEPTED.

NAME.	From	To	Length in Feet.
Aldrich Street . .	Lowell Railroad . .	Pearl Street	611
Chapel Street . .	Elm Street	Chandler Street	273
Meacham Street . .	Cambridge line . .	North line Orchard Street .	100
Mystic Street . .	Somerville Avenue,	Washington Street	360
Orchard Street . .	Dover Street	Meacham Street	224

STREETS IMPROVED.

NAME.	From	To	Improvement.	Feet.
Beacon St., W. side,	No. Camb'ge line .	Sacramento St.	Re-macadamized	2,130
Berkeley St. . . .	Central St. . . .	Easterly. . . .	Graded and macadamized .	690
Bow St.	Summer St. . . .	Som'ville Ave.	Gravelled.	550
Broadway, So. side,	Boston line . . .	George St. . . .	Gravelled.	550
Broadway, No. side,	Cross St.	Bond St. . . .	Gravelled.	3,490
Chapel St.	Elm St.	Chandler St. . .	Graded and macadamized .	273
Cherry St.	Summer St. . . .	Highland Ave.	Graded and macadamized .	580
Cross St.	Broadway	Medford St. . .	Re-macadamized	2,660
Elm St.	Russell St. . . .	Chapel St. . . .	Re-macadamized	1,960
Highland Ave. . . .	Medford St. . . .	Central St. . . .	Re-macadamized	3,250
Highland Ave. . . .	Central St. . . .	Davis Square . .	Macadamized	5,850
Medford St.	Washington St. .	Highland Ave.	Re-macadamized	1,650
Medford St.	Pearl St.	Central St. . . .	Re-macadamized	1,940
Mystic Ave.	Boston line . . .	Canal St.	Re-macadamized	490
Pearl St.	Cross St.	Medford St. . .	Filled and macadamized .	2,430
Prescott St.	Summer St. . . .	Highland Ave.	Macadamized	1,050
Preston St.	School St.	Summer St. . . .	Graded and macadamized .	800
Porter St.	Elm St.	Williams Ct. . .	Filled and macadamized .	480
Quincy St.	Somerville Ave. .	Summer St. . . .	Re-macadamized	700
Somerville Ave. . .	E. Cambr'ge line .	Union Square . .	Re-macadamized	4,400
Vinal Ave.	Summer St. . . .	Highland Ave.	Gravelled.	1,400
Walnut St.	Pleasant Ave . .	Lowell R.R. . .	Re-macadamized	800
Warren Ave.	Bow St.	Columbus Ave.	Re-macadamized	650
Webster Ave. . . .	Union Square . .	Tremont St. . .	Re-macadamized	1,450

SIDEWALKS CONSTRUCTED WHERE THE MATERIALS AND LABOR WERE FURNISHED BY THE CITY, AND ONE-HALF OF THE COST WAS ASSESSED UPON THE ABUTTING ESTATES.

STREET.	From	To	Feet of Edge- stones.	Yards of Brick.	Cost.
Chapel, both sides . . .	Elm St.	Chandler St. . . .	640.6	-	\$474 04
Elm, north side	Grove St. . . .	Medina building,	-	426.36	418 93
Elm, south side	Russell	Chester St. . . .	583.9	-	336 13
Elm, west side	Arlington R.R.	Chapel St.	667.0	-	469 13
Holland, north side . .	Arlington R.R.	Wallace St. . . .	277.4	340.08	483 15
Mystic Ave., north side .	Boston line . .	Canal St.	494.9	-	320 68
Porter, both sides . . .	Elm St.	Williams Ct. . . .	1,037.7	-	615 41
Prescott, both sides . .	Summer St. . .	Highland Ave. . .	2,252.75	-	1,459 55
Quincy, west side . . .	Som'ville Ave.	Summer St. . . .	804.9	}	878 59
Quincy, east side . . .	Som'ville Ave.	Near Summer St.	725.1		
Warren Ave., west side .	Bow St.	Columbus Ave. . .	634.45	440.59	763 24
Totals			8,118.70	1,207.03	\$6,218 85

SIDEWALKS CONSTRUCTED WHERE EDGESTONES AND BRICKS WERE
FURNISHED BY THE ABUTTERS.

For	Street.	Feet of Edgestones.	Yards of Brick.
L. R. Bacon	Orchard	53.6	38.0
Bowman & Kendall, trustees	Broadway	35.7	-
E. S. Brooks	Summit Ave.	-	68.25
Charles Callahan	Pinckney	-	46.0
E. Coliton	Linwood and Poplar	-	140.0
Charles Drouet	Summer	132.9	-
F. C. Gallagher	Poplar	78.1	-
J. F. Hathaway	Elm	91.8	117.7
George H. Hills	Walnut	72.6	-
H. M. Holland	Broadway	23.3	-
T. C. Hollander	Walnut and Pleasant Ave.	73.4	140.0
C. W. Kingsley	Orchard	152.3	116.0
O. S. Knapp	School	79.2	58.4
M. P. Otis	Broadway	27.0	-
C. E. Randall	Central Square	-	80.0
W. L. Snow	Highland Ave.	67.3	-
E. S. Sparrow	Elm	44.2	-
E. R. Stearns	Broadway	23.0	-
R. H. & L. J. Sturtevant,	Columbus Ave.	-	307.36
B. F. Thompson	Summit Ave.	-	49.32
F. A. Titus	Glen and Oliver	257.0	-
Totals		1,211.4	1,161.03

DRIVEWAYS CONSTRUCTED (AT EXPENSE OF ABUTTERS).

For	Street.
Chase & Dutch	Prospect.
H. E. Hall	Highland Ave.
L. P. Hollander	Summit Ave.
Lewis Hollis	Broadway.
S. T. Kirk	Cross.
E. McLeod	Linwood.
Public grounds account.	Highland Ave. (at Central Hill land.)
W. H. Thomas	Cross.
R. W. Willey	Flint.
F. D. Woodbridge	Cross.

DRIVEWAYS DISCONTINUED (AT EXPENSE OF ABUTTERS).

For	Street.
R. P. Benton	Summer.
E. A. Stone	Marshall.

CROSSINGS CONSTRUCTED.

Broadway, across end of Austin Street.

Central Square, across end of Shawmut Street.

Central Street, in line with northerly sidewalk of Highland Avenue.

Elm Street, “ “ “ westerly “ “ Chester Street.

“ “ “ “ “ “ “ Porter Street.

Highland Avenue, at driveway to Central Hill land.

“ . “ in line with westerly sidewalk of Putnam Street.

Holland Street, across end of Winter Street.

Medford Street, in line with westerly sidewalk of Norwood Avenue.

Somerville Avenue, in line with easterly sidewalk of Church Street.

“ “ “ “ “ “ “ Hawkins “

Summer Street, across end of Benton Avenue.

Vinal Avenue, in line with southerly sidewalk of Summit Avenue.

Walnut Street, “ “ “ northerly “ “ Grand View “

CULVERTS CONSTRUCTED.

Broadway, wood, under southerly sidewalk, at City Ledge, 1.

Cameron Avenue, pipe, under street, at brook, 1.

Cedar Street, wood, under westerly sidewalk, north of Lowell Railroad, 1.

Cedar Street, wood, under easterly sidewalk, north of Lowell Railroad, 1.

Highland Avenue, wood, under southerly sidewalk, at Lowell Street, 1.

Pearl Street, wood, under northerly sidewalk, east of Walnut Street, 1.

Pearl Street, wood, under southerly sidewalk, east of Walnut Street, 1.

Summer Street, pipe, under northerly sidewalk, west of Prescott Street, 1.

DANGER SIGNS ERECTED.

Ashland Street, at Chestnut Street.

“ “ “ Summer Street.

Chandler “ “ Broadway.

Chestnut “ “ Cedar Street.

Dimick “ (or Garden Street), at Calvin Street.

“ “ “ “ “ Concord Avenue.

Francesca Avenue, at Elm Street.

Kidder “ “ “ “

Lowell Street, at Summer Street.

“ “ “ Somerville Avenue.

Williams Street, at Elm Street.

And three on private way leading to the clay pit between Washington and Wyatt Streets.

STREET SIGNS ERECTED.

Beacon Street.

Broadway.

Irving Street.

Morgan Street.

Porter Street.

Quincy Street.

Wallace Street.

EDGESTONES AND PAVING.

Lineal feet of edgestones set (including 520 feet reset), 9,850 ; square yards of brick paving laid (including 1,442 yards re-laid), 3,810 ; square yards of stone paving laid (including 237 yards relaid), 3,980.

For the committee,

SAMUEL W. HOLT, *Chairman.*

GEO. I. VINCENT, *Clerk.*

REPORT OF THE COMMITTEE ON SEWERS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Dec. 30, 1887.

Ordered to be filed with the city clerk for presentation to the next city council, to be printed in the annual reports. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Dec. 30, 1887.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON SEWERS, Dec. 31, 1887.

To the Board of Aldermen of Somerville: —

The committee on sewers presents the following final report for the year 1887: —

SEWERS ACCOUNT.

CREDIT.

Appropriation	\$8,000 00
Receipts and credits: —	
For catch-basin curbs in sidewalks, —	
received credit from Sidewalks	
account	\$40 16
fee for entering Elm Street sewer	53 60
fee for drainage of Asylum buildings	
into Fitchburg Street sewer	50 00
labor and materials furnished in 1886,	
the bills for which remained un-	
collected Jan. 1, 1887	33 42
unpaid bill for materials purchased,	7 50
	<hr/>
	184 68
Value of materials on hand Jan. 1, 1887	275 74
Value of tools and property Jan. 1, 1887	246 80
	<hr/>
Total credit	\$8,707 22

DEBIT.

Expenditures: —

For eighteen sewers, as per accom-	
panying table	\$8,524 40
less assessments	6,281 32
	<hr/>
cost to city	\$2,243 08
	<hr/>
Amount carried forward	\$2,243 08

<i>Amount brought forward</i>	\$2,243 08
re-laying part of Webster Avenue sewer near Union Square at a lower grade	187 46
two man-holes in Elm Street sewer, between Cedar and Cherry Streets	120 00
fourteen catch-basins (average \$73.50½)	1,029 07
moving catch-basin Highland Avenue west of steamer house	67 08
moving catch-basin east side Porter Street near Elm Street	42 27
five-ninths cost of removing deposit from mouth of Bridge Street sewer and repairing said sewer	1,175 87
repairing sewers and drains	198 72
flushing sewers and filling catch-basins with water	238 69
cleaning sewers	179 50
examining sewers	67 55
digging to locate old sewers	33 20
repairing catch-basins	145 54
changing lines and grade of catch-basins	101 14
cleaning catch-basins	1,398 59
clearing mouths of catch-basins	138 00
examining catch-basins	2 81
repairing man-holes	1 13
changing lines and grades of man-holes	191 19
cleaning ditches	33 51
inspecting sewers built by abutters in Bartlett, Gibbens, and Sydney Streets, and Fanning, Henley, Lesley, Lexington, Norwood, Rich- dale, and St. James Avenues	261 87
books, stationery, and printing	46 06
repairing tools and property	14 59
sundry small expenses	7 24
abatements of assessments and settlement of land damages	180 52
advertising and sounding for sewer in Cedar and Cherry Streets	57 40
<i>Amount carried forward</i>	\$8,162 08

REPORT OF COMMITTEE ON SEWERS.

247

<i>Amount brought forward</i>	\$8,162 08
private work, the bills for which remain uncollected	149 04
Depreciation in value of tools, property, and materials	99 21
Value of materials on hand Dec. 31, 1887	233 67
Value of tools and property on hand Dec. 31, 1887 (including purchases during the year, \$255.55)	407 70
	<hr/>
Total debit	\$9,051 70
	<hr/>
Amount overdrawn	\$344 48
	<hr/>

In addition to the above statement, labor and materials have been furnished, for which credit or payment has been received, as follows:—

For the Board of Health, catch-basin in Columbia Street	\$83 37
For the Highway Department, drain pipe	22 44
For the Water Board, repairing catch-basin in Marshall Street	8 10
For sundry contractors, puddling sewers	13 50
	<hr/>
Total	\$127 41

For the purpose of relieving the sewer in the easterly end of Summer Street, overflow sewers have been constructed from this sewer into the sewers in Church and School Streets, so that in times of heavy rains or thaws a large part of the water is now diverted into these last-named sewers.

A portion of the sewer in Webster Avenue, between Everett Street and Union Square, has also been taken up, and re-laid at a lower grade, to accommodate the owner of a block of stores having deeper cellars than those under the dwelling-houses heretofore drained by the sewer.

We present the following list, prepared by the city engineer, of sewers built and rebuilt during the year:—

REPORT OF THE CITY ENGINEER.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Feb. 1, 1888.

Referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, *Clerk pro tem.*

IN COMMON COUNCIL, Feb. 9, 1888.

Concurred in.

CHAS. S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

OFFICE OF CITY ENGINEER, CITY HALL, SOMERVILLE, Feb. 1, 1888.

To his Honor the Mayor and City Council :—

In compliance with Sect. 9 of the Ordinance relating to the City Engineer's Department, the following report is respectfully submitted :—

CITY ENGINEER'S DEPARTMENT.

The maximum number of persons employed is five; minimum, two; the present number employed is five.

EXPENSES.

Salary of city engineer, including care and keeping of horse and carriage	\$2,000 00
Salaries of assistants	1,867 04
Instruments and repairs	159 45
Supplies	151 44
Car fares	12 12
	<hr/>
	\$4,190 05

The work which has come under the direction of this department will be considered under the following heads: SEWERS, HIGHWAYS, BRIDGES, WATER, PUBLIC GROUNDS.

SEWERS.

Five thousand five hundred and fifty-three feet, or 1.05 miles, of public sewers have been built during the past year, making the total length of the entire system of public sewers 40.4 miles.

The cost of new construction for the year 1887 was \$8,711.86. Of this amount \$6,266.92 has been assessed on abutters, and \$2,444.94 assumed by the City.

Four thousand five hundred and thirty-two and six-tenths feet of private sewers have been built under the supervision of inspectors furnished by the City.

The cost of inspection of sewers built by the City was \$354.13, of sewers built by private parties \$269.37.

CATCH-BASINS.

Seventeen new catch-basins have been built at an average cost of \$73.94, an increase in average cost over that of last year of about twelve per cent, due to the increased cost of labor.

Two basins have been removed and re-located, at an average cost of \$63.75.

The amount expended for cleaning catch-basins was \$1,536.09.

MAN-HOLES.

Two new man-holes have been built on the Elm Street sewer, between Cherry and Cedar Streets. Many old sewers were built without man-holes, and cannot, therefore, be examined or cleansed. These sewers must in time become filled; and, if neglected, will cause serious trouble. I would, therefore, recommend that man-holes be built immediately in such locations as the committee on sewers deems necessary.

BRIDGE STREET OUTLET.

About 4,820 cubic yards of deposit were removed from the outlet of the Bridge Street sewer by the City of Cambridge, during the months of May and June, at a cost of \$2,054.30. The cost of repairs was \$62.24. Total cost for the year, \$2,116.54. Five-ninths of this amount — \$1,175.87 — was paid by the City of Somerville.

WHEATLAND STREET OUTLET.

The outlet of the Wheatland Street sewer is a wooden box-drain, which runs parallel with Mystic Avenue from Wheatland Street to Winthrop Avenue. The earth has been removed from the top of the box, and openings have been made through which the sewage flows on top of the box, and in open trench, thus increasing the capacity of the outlet. As the quantity of sewage which may be discharged is more than doubled by this change in

the outlet, it is hoped that there will be no more complaint of damage to property from storm water in the Wheatland Street sewer district. Total cost, \$186.99.

REBUILDING WEBSTER AVENUE SEWER.

A portion of the sewer in Webster Avenue near Union Square, as originally laid, was not low enough to drain the cellars of adjacent houses. About 123 feet of the old sewer has been rebuilt at a lower grade, at a cost of \$187.46.

PRIVATE DRAINS.

Three hundred and fifty-six permits for laying private drains, and twenty for re-laying and repairing old drains have been issued. These private drains and changes in old drains have been properly located and recorded.

LICENSED DRAIN LAYERS.

A City ordinance provides that all private drains shall be laid, and all repairs on the same be made, by persons licensed for that purpose by the Board of Aldermen. Twenty-one drain layers have taken permits during the past year. In most cases these drain layers' bonds were executed several years ago; the sureties should be examined and the bonds renewed. I would therefore recommend that all drain layers' licenses be revoked, and new licenses granted to such persons as will give the work their personal attention, and are capable of doing it in a thorough manner.

INSPECTOR OF HOUSE DRAINS.

I would recommend that an inspector of house drains be appointed, whose duty would be to inspect all work done by drain-layers, and require that the work be thoroughly done in every particular.

EXAMINATION OF SEWERS.

An examination of such sewers as are provided with man-holes has been made. With some exceptions the sewers examined are in a fair condition. In the Beacon and Elm Street sewer, considerable deposit was found from Sacramento Street to the Washing-

ton Street bridge over the Fitchburg Railroad ; in the Somerville Avenue sewer, at the Bow Street connection ; in the Medford Street sewer, from Ward Street to Somerville Avenue ; in the Washington Street sewer, from Waverly Street to Tufts Street ; in the Wheatland Street and Winthrop Avenue sewers.

In the case of the Wheatland Street and Winthrop Avenue sewers but little permanent relief can be obtained so long as the outlet remains in its present location. Immediate steps should be taken to remove the deposit from the Wheatland Street sewer ; otherwise the branch sewers in Jaques, Derby, and adjacent streets will be of little service, from the fact that the outlets of these branch sewers will be covered by the deposit in the Wheatland Street sewer.

Two man-holes have been built on the Elm Street sewer between Cherry and Cedar Streets, and the sewer opened for examination. A considerable amount of deposit was found. This sewer was found to be in bad condition, and must eventually be rebuilt.

The cost of building two man-holes was \$120.

The cost of cleaning was \$137.33.

SEWERS IN WILTON, LOWELL, AND APPLETON STREETS.

This system of sewers, completed in 1886 and designed to convey house drainage only, is in good condition, and works satisfactorily. It will require frequent flushing to keep the pipes clear.

A table showing the location, size, cost per foot, assessment, and cost to the City of sewers built in 1887 may be found in Appendix A.

HIGHWAYS.

Surveys have been made and lines and grades given for about eight thousand feet, or one and one-half miles of edgestone, and sidewalk.

About four and one-tenth miles of horse railroad track have been laid during the past year. This work has been done under the direction of the city engineer, as far as regards lines and grades.

The grading and surfacing of streets through which tracks have been laid has been done at considerable expense to the Highway Department, and, in some instances, the streets might have been

used and maintained for some years at a comparatively low figure if tracks had not been laid. But, after these streets have been thoroughly surfaced, it is probable a very small amount will be needed for maintenance for some years. The laying of horse railroads must be considered a public improvement and a permanent work, as the grade at which a track is laid becomes practically the established grade of the street.

STREETS ACCEPTED.

Five streets have been accepted. Plans showing locations and profiles have been submitted, revised, and deposited with the City Clerk.

A table showing location, width, and length of streets accepted in 1887 may be found in Appendix B.

STREETS NUMBERED.

Six streets have been numbered. Surveys have been made, plans prepared, and notices issued to owners of buildings on streets numbered. Many new houses have been located and numbers assigned them, on streets already numbered.

SIDEWALK IMPROVEMENTS.

In Appendix B may be found a table showing sidewalks improvements completed in 1887.

LENGTH AND LOCATION OF PUBLIC AND PRIVATE STREETS.

A table showing the location and length of public and private streets was prepared by City Engineer George A. Kimball in 1886. In Appendix C may be found a copy of this table, revised and corrected to January, 1888.

PERAMBULATING THE SOMERVILLE AND MEDFORD BOUNDARY LINE.

A committee, consisting of Alderman Holt and the City Engineer representing the City of Somerville, met the selectmen of Medford, Oct. 27, 1887, perambulated the lines, and examined the bounds.

The bounds were erect and in good condition. No additional bounds were located.

SURVEY OF THE CITY.

Owing to the large amount of routine work which has been done by this department, but little progress has been made with the City survey. Base lines for street surveys have been run over the entire area of the City, but a little more than one-third of the area of the City has been accurately surveyed, and buildings and fences located. In this area surveyed, many changes have been made and buildings erected since surveys were completed. It is therefore evident that a great deal yet remains to be done. I would recommend that the appropriation be increased, so that a part of this work can be done the ensuing year.

BRIDGES.

First. — Bridges on the location of the Boston and Lowell Railroad.

WASHINGTON STREET BRIDGE.

During the past year the old bridge and abutments have been removed, and a substantial iron bridge erected, with abutments of coursed rubble masonry.

The under sides of the girders of the present bridge are about five inches below the grade of the under side of the old bridge. This difference in elevation between the under side of the old and new bridge reduces the headroom about five inches.

The grade of Washington Street on either side of the bridge has not yet been fixed to the satisfaction of the City of Somerville.

CROSS STREET BRIDGE.

This bridge was raised during the past year, and the floor beams now rest on a wooden blocking. If the bridge is not rebuilt this season, this blocking should be removed and replaced with stone. The floor is very light, and is not safe for public travel. The abutments are in unsafe condition, and should be rebuilt at once.

WALNUT STREET BRIDGE.

This bridge is in fair condition. The floor timbers rest on wooden blocking, and should be made safe by substituting masonry for this temporary blocking.

MEDFORD STREET BRIDGE.

This bridge is in good condition.

SCHOOL STREET BRIDGE.

This bridge is in fair condition. The posts which support the sidewalk of the south-east approach are somewhat decayed.

SYCAMORE STREET BRIDGE.

The floor beams under the sidewalk are badly decayed, and should be replaced.

The floor is somewhat worn, but can be made safe for another year. The fences are badly decayed, and should be renewed at once.

CENTRAL STREET BRIDGE.

The stone arch at this bridge is in good condition. The wooden sidewalks need repairs. Several floor beams, the corner braces of the 12" \times 14" posts, and the ends of these posts are decayed.

CEDAR STREET BRIDGE.

This bridge is unsafe for travel, and should be rebuilt at once. The trusses are distorted, the chords are decayed and shaky, the floor beams are old and unsafe, the abutments are in bad condition. The trusses are entirely covered, and it is impossible to examine the wood or iron work, and their condition is uncertain.

BROADWAY BRIDGE.

This bridge is in fair condition. The fences on the approaches are badly out of line, and should be made safe.

Second. — Bridges over the Fitchburg Railroad.

The bridges at Prospect Street and at Beacon Street are in good condition.

Third. — Miscellaneous Bridges.

BROADWAY BRIDGE OVER ALEWIFE BROOK.

This is a stone-arch bridge. The arch is in good condition. The retaining walls need to have some pinnars replaced, and need pointing in places.

BOSTON AVENUE BRIDGE OVER MYSTIC RIVER.

One-half of this bridge is supported by the city of Somerville. The fences on the part of the bridge in Somerville need repairing.

MIDDLESEX AVENUE BRIDGE OVER MYSTIC RIVER.

One-half of this bridge is supported by the city of Somerville.

In May, repairs were begun on this bridge. The roadway covering and the old deck plank were removed. Piles which were decayed were removed, and new piles driven and capped. A new deck was laid of 5-inch hard pine heavily coated with coal tar. The bulkhead timbers between the sidewalk and roadway were replaced by new hard pine, and the outside bulkhead timbers were renewed where needed. About one-half of the sidewalk planking was re-laid with new stock. The planking on the draw was renewed, and the bridge and draw painted two coats.

The repairs were made by the day under the direction of the selectmen of Medford.

The cost of repairs was \$10,322.31. To this sum must be added interest on money borrowed to make repairs. One-half of this amount will be charged to the city of Somerville.

PUBLIC GROUNDS.

CENTRAL HILL PARK IMPROVEMENT.

A contract was made with Timothy F. Crimmings May 19, 1887, for removing surplus material and doing necessary grading on Central Hill Park. The final payment under this contract was made Sept. 30 for removing about 1,326 squares of material at a cost of \$4,219.46.

A driveway has been built and concrete walks laid, and the necessary sodding laid to protect the walks.

The cost of the improvement to date is as follows:—

T. F. Crimmings, 1,326 squares material moved . . .	\$4,219 46
Walter Bates, 623.4 sq. yds. concrete @ \$1.10 . . .	685 75
J. Turner & Co., paving-stock and labor . . .	248 20
Dennis Ryan, sodding and labor . . .	228 80
Highway Department, constructing driveway . . .	250 62
Manure, loam, labor	87 82

\$6,720 65

CITY HALL AND PUBLIC LIBRARY GROUNDS.

The banking on the north-west side and the lawn in front of the City Hall have been re-graded and sodded. The lawn on the south-east side has been re-graded and sown, and the lawn in front of the library sown, and the borders sodded. A concrete walk has been laid in front and on the south-east side of the City Hall.

The cost is as follows :—

Dennis Ryan, 4,048 sq. ft. sod in place @ \$0.03 . . .	\$121 44
“ “ 4,107 “ “ “ “ “ “ 0.03½ . . .	143 75
“ “ labor and grading	149 27
L. M. Maynard, 319 sq. ft. sod delivered @ \$0.01½ . . .	4 78
labor, expressing, ploughing	89 55
manure	71 01
tools and lumber	53 58
grass seed	29 30
Walter Bates, 88.4 sq. yds. concrete @ \$0.90 . . .	79 56
	<hr/>
	\$742 24

WATER WORKS.

Lines and grades for laying pipes have been given where required and for mains extended and re-laid ; gates, hydrants, and services located, and properly recorded.

MISCELLANEOUS.

The usual amount of work required for giving street lines and grades for the erection of new buildings and fences, and the preparation of plans for streets, sidewalks, sewers, etc., has been done.

HORACE L. EATON,
City Engineer.

APPENDIX A.

TABULAR STATEMENT OF SEWERS BUILT IN 1887.

LOCATION.			CONSTRUCTION.										COST.		
Name of Street.	From	To	Built by	Materials.	Size in inches.	Man-holes.	Chimneys.	Inlets.	Length in feet.	Average Cut.	Aver. cost per foot.	Total Cost.	Assessment.	Cost to City.	
Bartlett . . .	Washington St.	Southerly	Daniel Brooks . . .	Edmand's pipe,	12	—	1	3	134.0	5.9	*	—	—	—	
Bigelow . . .	Boston St.	Southwesterly	Dennis Ryan . . .	Akron pipe	10	—	1	6	202.0	9.6	\$1.23	\$206 74	\$200 65	\$6 09	
Buckingham . . .	Dimick St.	near Beacon St.	Charles A. Mongan .	" "	10	—	—	1	217.0	9.5	1.09	236 49	209 53	26 96	
Cedar Court . . .	Cedar St.	Southwesterly	Dennis Ryan . . .	" "	8	—	—	6	245.0	5.6	*	—	—	—	
Cherry . . .	Elm St.	near Summer St.	Richard Falvey . . .	" "	12	3	51	—	752.3	7.5	1.29	968 96	907 85	61 11	
Church . . .	end of old sewer	Summer St.	Charles A. Mongan .	" "	15	1	—	3	114.0	7.7	1.81	206 25	206 25	206 25	
Derby ¹ . . .	Wheatland St.	Temple St.	Christopher Burke .	" "	12	4	74	—	1,084.5	7.4	1.90	2,056 99	1,481 58	575 41	
Fanning Ave. . .	Lexington Ave.	Southwesterly	Ayer estate . . .	" "	10	—	1	12	327.0	8.7	*	—	—	—	
Gibbens . . .	Central St.	Benton Ave.	Samuel McCulloch .	Portland pipe	12	1	19	—	532.2	7.0	1.28	193 57	—	—	
Grand View Av. . .	end of old sewer	Vinal Ave.	Charles A. Mongan .	Akron pipe	12	—	—	2	86.0	—	1.72	—	121 82	71 75	
Vinal Ave. . .	Grand View Ave.	Northeasterly	" "	" "	10	1	—	4	65.7	8.1	*	—	—	—	
Grant . . .	Sydney St.	" "	Christopher Burke .	" "	10	—	—	—	40.0	5.6	*	—	—	—	
Henry Ave. . .	Lexington Ave.	Southwesterly	" "	" "	10	—	—	4	103.0	6.0	*	—	—	—	
Highland Ave. . .	end of old sewer	Trull Lane	Ayer estate . . .	" "	10	2	22	—	237.0	8.0	*	705 16	619 93	85 23	
Hinckley . . .	" "	Broadway	Maurice Buttimer .	" "	8	—	—	—	410.0	12.1	1.72	193 60	71 85	121 75	
Broadway . . .	Hinckley St.	near Medford St.	" "	" "	8	1	1	6	170.5	10.3	1.14	—	—	—	
Lesley Ave. . .	Lexington Ave.	Southwesterly	Ayer estate . . .	" "	10	—	—	—	278.0	9.2	*	—	—	—	
Lexington Ave. . .	Willow Ave.	Southwesterly	" "	" "	15&12	3	26	—	632.9	8.7	*	—	—	—	
Linden Ave. . .	end of old sewer	Summer St.	Charles A. Mongan .	" "	15	1	—	5	158.0	8.6	1.55	244 88	200 33	44 55	
Linden Ave.Ex.	Summer St.	Northeasterly	Dennis Ryan . . .	" "	8	—	—	—	94.0	8.9	*	—	—	—	
Lowell . . .	end of old sewer	Medford St.	Maurice Buttimer .	" "	8	2	—	—	247.0	9.3	1.10	282 48	253 37	29 11	
Medford . . .	Lowell St.	near Broadway	" "	" "	8	—	—	—	—	—	*	—	—	—	
Marrett Place . . .	Walnut St.	Northwesterly	Dennis Ryan . . .	" "	8	—	—	—	175.0	11.1	*	—	—	—	
Medford . . .	Trull St.	Southwesterly	Charles A. Mongan .	" "	8	—	—	3	100.0	9.2	0.98	97 77	57 99	39 78	
Munroe . . .	Walnut St.	" "	" "	" "	12	1	—	3	175.0	9.2	1.55	271 87	176 49	95 38	
Norwood Ave. . .	Medford St.	Northeasterly	" "	Edmand's pipe,	8	—	—	11	328.5	7.9	*	—	—	—	
Richdale Ave. ² . . .	School St.	Northwesterly	Paul Kelly . . .	" "	12	—	—	3	67.8	6.8	*	—	—	—	
School . . .	end of old sewer	Summer St.	Charles A. Mongan .	Akron pipe	15	—	—	1	70.0	6.7	1.49	104 03	—	104 03	
St. James Ave. . .	Elm St.	Northeasterly	Dennis Ryan . . .	Portland pipe	12	1	—	25	398.2	10.3	*	—	—	—	

APPENDIX B.

STREETS ACCEPTED IN 1887.

Name of Street.	From	To	Width in Feet.	Length in Feet.
Aldrich . . .	Pearl Street	Boston and Lowell R.R. . .	40	611.0
Chapel . . .	Elm Street	Chandler Street	40	272.8
Meacham . .	Orchard Street . . .	Cambridge Line	40	100.0
Mystic . . .	Somerville Avenue .	Washington Street	40	360.0
Orchard . . .	Dover Street	Meacham Street	40	224.0

SIDEWALKS.

The following table will show the sidewalk improvements during the year : —

Street.	Side.	From	To	Materials.	Approx. length of walk, in feet.	Cost.
Chapel	Both . .	Elm Street	Chandler Street	Gravel and edgestones .	579	\$474 04
Elm	Northeast,	Medina's Block (Davis Square) . .	Grove Street	Bricks	420	418 93
"	Southwest,	Russell Street	Chester Street	Gravel and edgestones .	566	336 13
"	Northwest,	Arlington Branch R.R.	Chapel Street	" " "	687	469 13
Holland	Northeast,	" " "	Wallace Street	Bricks and edgestones .	348	483 15
Mystic Avenue	"	Boston Line	Canal Street	Gravel and edgestones .	463	320 68
Porter	Both . .	Elm Street	Williams Court	" " "	1,023	615 41
Prescott	" . .	Summer Street	Highland Avenue	" " "	2,244	1,459 55
Quincy	" . .	Somerville Avenue	Summer Street	" " "	1,500	878 59
Warren Avenue	Northwest,	Bow Street	Columbus Ave.	Bricks and edgestones .	642	763 24
Totals . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	8,472	\$6,218 85

The Board of Aldermen assessed one-half the cost on the abutters.

APPENDIX C.

TABLE SHOWING THE LOCATION, LENGTH, AND WIDTH OF PUBLIC AND PRIVATE STREETS.

STREET.	From	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Adams . . .	Broadway . . .	Medford St. . . .	Public .	40	900	-
Adrian . . .	Marion St. . . .	Joseph St. . . .	Private .	40	-	530
Albion . . .	Central St. . . .	Cedar St. . . .	Private .	about 35	-	2,740
Albion . . .	Broadway . . .	Medford Line . . .	Private .	50	-	100
Aldersey . . .	Walnut St. . . .	Vinal Ave. . . .	Public .	40	508	-
Aldrich . . .	Pearl St. . . .	B. & L. R.R. . . .	Public .	40	611	-
Alfred . . .	Broadway . . .	Medford Line . . .	Private .	50	-	50
Allen . . .	Somerville Ave..	Charlestown St. . .	Private .	25	-	680
Allen Ct.. . .	Park St. . . .	Northwesterly . . .	Private .	20	-	150
Alpine . . .	Cedar St. . . .	Southeasterly . . .	Private .	30	-	670
Alston . . .	Cross St. . . .	Shawmut Pl. . . .	Private .	40	-	420
Appleton . . .	Lowell St.. . .	Lawrence St. . . .	Private .	35	-	480
Appleton . . .	Willow Ave.. . .	Morrison St. . . .	Public .	40	750	-
Appleton . . .	Appleton St.. . .	Liberty Ave. . . .	Private .	40	-	120
Arlington . . .	Franklin St. . .	Lincoln St. . . .	Public .	40	440	-
Arnold* . . .	Morrison St. . .	Broadway . . .	Private .	40	-	1,690
Ashland . . .	Summer St. . . .	Chestnut St. . . .	Private .	30	-	470
Asylum Ave..	Washington St..	McLean Asylum . .	Private .	about 30	-	2,000
Auburn Ave..	Cross St. . . .	B. & L. R.R. . . .	Private .	30	-	500
Austin . . .	Broadway . . .	Mystic Ave. . . .	Public .	40	680	-
Autumn . . .	Broadway . . .	Bonair St. . . .	Private .	20	-	420
Avon . . .	School St. . . .	Northwesterly . . .	Private .	40	-	700
Avon Pl. . . .	Cross St. . . .	B. & L. R.R. . . .	Private .	25	-	150
Bartlett . . .	Washington St..	Asylum grounds . .	Private .	20	-	200
Beach Ave.. . .	Webster Ave. . .	Columbia St. . . .	Private .	about 20	-	200
Beacon . . .	Cambridge Line	Somerville Ave. . .	Public .	66	6,100	-
Bean's Ct. . .	Cutter St. . . .	Southeasterly . . .	Private .	16	-	700
Bedford . . .	South St. . . .	Cambridge Line . .	Private .	30	-	160
Beech . . .	Somerville Ave..	Spring St. . . .	Public .	40	800	-
Belmont . . .	Somerville Ave..	Summer St. . . .	Public .	40	1,230	-
Belmont . . .	Summer St. . . .	Highland Ave. . . .	Private .	40	-	960
Benedict . . .	Union St. . . .	Austin St. . . .	Public .	40	600	-
Benedict Ave..	Broadway . . .	Benedict St. . . .	Private .	20	-	200
Bennett . . .	Prospect St. . .	Bennett Ct. . . .	Private .	10	-	400
Bennett Ct.. .	Bennett St. . . .	Prospect St. . . .	Private .	10	-	about 100
Benton Ave..	Summer St. . . .	Highland Ave. . . .	Private .	40	-	925
Berkeley . . .	School St.. . .	Central St. . . .	Public .	40	1,340	-
Bigelow . . .	Boston St. . . .	Munroe St. . . .	Private .	40	-	203
Billingham* . .	Broadway . . .	Williams	Private .	40	-	568
Bishop's Pl. . .	Glen St. . . .	Easterly	Private .	10	-	75
Bleachery Ct. .	Somerville Ave..	Fitchburg R.R. . . .	Private .	30	-	450
Bolton . . .	Oak St. . . .	Houghton St. . . .	Private .	40	-	500
Bonair . . .	Cross St. . . .	Walnut St. . . .	Public .	40	1,470	-
Bond . . .	Broadway . . .	Jaques St. . . .	Public .	40	640	-
Bonner Ave. . .	Washington St..	Columbus Ave. . . .	Public .	40	450	-
Boston . . .	Washington St..	Walnut St. . . .	Private .	40 & 50	-	1,850
Boston Ave..	Medford Line . .	Medford Line . . .	Public .	60	910	-
Bow . . .	Union Sq. . . .	Somerville Ave. . . .	Public .	50 & 60	1,100	-
Bow St. Pl. . .	Bow St. . . .	Northwesterly . . .	Private .	40	-	300

* Proposed.

STREET.	From	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Bradford Ave..	School St. . . .	Southeasterly . . .	Private .	40	-	150
Bradley . . .	Pearl St. . . .	Veazie St. . . .	Private .	40	-	420
Brastow Ave. .	Lowell St. . . .	Porter St. . . .	Private .	40	-	660
Brick-yard Lane	Prospect St. . .	Webster Ave. . . .	Public .	25	470	-
Broadway . . .	Charlesto'n Line	Arlington Line . .	Public .	60 & 200	17,000	-
Broadway Pl. .	Broadway . . .	Southwesterly . .	Private .	22	-	250
Brook . . .	Glen St. . . .	Cross St. . . .	Public .	40	500	-
Brooks . . .	Main St. . . .	Northeasterly . .	Private .	40	-	400
Buckingham .	Beacon St. . .	Dimick St. . . .	Private .	40	-	300
Calvin . . .	Washington St..	Beacon St. . . .	Private .	40	-	750
Cambria . . .	Central St. . .	Northwesterly . .	Private .	40	-	300
Cameron Ave..	Holland St. . .	Cambridge Line . .	Private .	60	-	1,000
Cedar . . .	Elm St. . . .	Broadway	Public .	40	4,150	-
Cedar St. Pl. .	Cedar St. . . .	Southwesterly . .	Private .	22	-	100
Central . . .	Somerville Ave.	Broadway	Public .	33, 40, 45	4,700	-
Centre . . .	Albion St. . .	B. & L. R.R. . . .	Private .	35	-	200
Chandler . . .	Park Ave. . . .	Broadway	Private .	40	-	1,200
Chapel . . .	Elm St. . . .	Chandler St. . . .	Public .	40	273	-
Chapel Ct. . .	Sycamore St. . .	Northwesterly . .	Private .	12	-	130
Charles . . .	Washington St..	Asylum grounds .	Private .	30	-	200
Charlestown .	Malloy Ct. . .	Allen St. . . .	Private .	15	-	400
Chauncey Ave.	Broadway . . .	Mystic Ave. . . .	Public .	50	1,320	-
Cherry . . .	Elm St. . . .	Highland Ave. . .	Public .	45	1,450	-
Chester . . .	Elm St. . . .	Cambridge Line . .	Public .	40	850	-
Chester Ave. .	Medford St. . .	Angle	Public .	about 22	220	-
Chester Ave. .	Angle	Cross St. . . .	Private .	20	-	445
Chester Pl. . .	Chester St. . .	Northwesterly . .	Private .	40	-	200
Chestnut . . .	Cedar St. . . .	Cherry St. . . .	Private .	35	-	400
Chestnut . . .	Poplar St. . .	Southeasterly . .	Private .	40	-	540
Chestnut Ct. .	Harvard St. . .	Easterly & westerly,	Private .	35	-	400
Church . . .	Summer St. . .	Somerville Ave. . .	Public .	40	600	-
Church . . .	Somerville Ave..	Lake St. . . .	Private .	40	-	300
Church St. Pl.	Church St. . .	Northwesterly . .	Private .	25	-	170
Claremon . . .	Holland St. . .	Cambridge Line . .	Private .	40	-	540
Clarendon Ave.	Broadway . . .	Cambridge Line . .	Private .	40	-	300
Clark . . .	Newton St. . .	Northwesterly . .	Private .	35	-	450
Clifton . . .	Morrison St. . .	Arlington B. R.R. .	Private .	40	-	220
Clyde . . .	Cedar St. . . .	Murdock St. . . .	Private .	30	-	600
College Ave. .	Broadway . . .	Medford Line . . .	Public .	50	1,700	-
Columbia . . .	Glass House Ct.	Cambridge Line . .	Private .	40	-	550
Columbia Ct. .	Columbia St. . .	Webster Ave. . . .	Private .	9	-	150
Columbus Ave.	Land of Clark .	Walnut St. . . .	Public .	40	1,000	-
Concord Ave. .	Prospect St. . .	Leon St. . . .	Public .	40 +	1,500	-
Concord Ave. .	Leon St. . . .	Beacon St. . . .	Private .	30 & 40	-	470
Congress Pl. .	Linwood St. . .	Southwesterly . .	Private .	16	-	200
Conlon Ct. . .	Columbia St. . .	Easterly	Private .	20	-	200
Conwell . . .	Highland Ave. .	Near Porter . . .	Private .	35	-	364
Conwell Ave. .	Curtis St. . . .	Westerly	Private .	40	-	600
Cooney . . .	Beacon St. . .	Line St. . . .	Private .	26	-	220
Cottage Ave. .	Russell St. . .	Chester St. . . .	Public .	40	500	-
Cottage Pl. . .	Washington St..	Northwesterly . .	Private .	about 11	-	150
Craigie . . .	Somerville Ave..	Summer St. . . .	Public .	50	1,250	-
Crescent . . .	Washington St..	Pearl St. . . .	Private .	30 to 33	-	650
Crocker . . .	Highland Ave. .	Crown St. . . .	Private .	40	-	530
Cross . . .	Mystic Ave. . .	Medford St. . . .	Public .	45	3,750	-
Crown . . .	Porter St. . . .	Lowell St. . . .	Private .	30	-	700
Curtis . . .	Broadway . . .	Medford Line . . .	Public .	40	2,300	-
Cutter . . .	Broadway . . .	Webster St. . . .	Public .	40	740	-
Cutter Ave. .	Summer St. . .	Highland Ave. . .	Private .	40	-	450
Cypress . . .	Morrison St. . .	Orange St. . . .	Private .	40	-	950
Dale . . .	Morrison St. . .	Orange St. . . .	Private .	40	-	1,275
Dana . . .	Bonair St. . . .	Everett Ave. . . .	Public .	40	400	-
Dane . . .	Somerville Ave.	Washington St. . .	Public .	40	1,270	-
Dane Ct. . .	Dane St. . . .	Easterly	Private .	30	-	600
Dartmouth . .	Medford St. . .	Broadway	Public .	40	1,450	-
Day . . .	Elm St. . . .	Cambridge Line . .	Public .	40	940	-
Delaware . . .	Aldrich St. . .	Pearl St. . . .	Private .	40	-	450
Derby . . .	Temple St. . .	Wheatland St. . .	Private .	40	-	1,032

STREET.	From	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Dexter . . .	Broadway . . .	Medford Line . . .	Private .	50	-	25
Dickinson . .	Springfield St. .	Beacon St.	Private .	40	-	650
Dimick . . .	Concord Ave . .	Calvin St.	Private .	40	-	860
Distillhouse .	South St.	Cambridge Line . .	Private .	35	-	150
Dix Pl. . . .	Linwood St. . . .	Southwesterly . . .	Private .	10	-	100
Dover	Elm St.	Cambridge Line . .	Public .	40	940	-
Durham	Beacon St.	Hanson St.	Private .	40	-	450
Earle	South St.	Fitchburg R.R. . . .	Private .	30	-	500
Earle	Broadway	Southwesterly . . .	Private .	30	-	300
Eastman Pl. .	Highland Ave. . .	Southwesterly . . .	Private .	40	-	300
Eliot	Vine St.	Park St.	Public .	40	260	-
Ellsworth . .	Cross St.	Rush St.	Public .	40	210	-
Elm	Somerville Ave. .	Medford Line . . .	Public .	69 +	7,700	-
Elm Ct. . . .	Villa Ave.	Northwesterly . . .	Private .	18	-	70
Elm Pl. . . .	Harvard St. . . .	Easterly & westerly .	Private .	30	-	400
Elmwood . . .	Holland St. . . .	Cambridge Line . . .	Private .	40	-	970
Emerson . . .	Everett St. . . .	Newton St.	Private .	30	-	170
Emery	Fitchburg R.R. . .	Cambridge Line . . .	Private .	30	-	650
Endicott Ave. .	Broadway	Southwesterly . . .	Private .	40	-	800
Essex	Medford St. . . .	Richdale Ave. . . .	Private .	40	-	200
Everett	Webster Ave. . . .	Newton St.	Private .	30	-	350
Everett Ave. .	Cross St.	Dana St.	Public .	40	800	-
Evergreen Ave. .	Marshall St. . . .	Sycamore St.	Public .	40	1,320	-
Evergreen Sq. .	Porter St.	Southeasterly . . .	Private .	8	-	200
Fairlee	Cherry St.	Northwesterly . . .	Private .	30	-	150
Fairmount Ave. .	Curtis St.	Northwesterly . . .	Private .	40	-	700
Fanning Ave. .	Willow Ave. . . .	Lexington Ave. . . .	Private .	50	-	1,150
Farragut Ave. .	Broadway	Southwesterly . . .	Private .	40	-	840
Fisk Ave. . . .	Hinckley St. . . .	Lowell St.	Private .	20 & 25	-	460
Fitchburg . . .	Linwood St. . . .	B. and L. R.R. . . .	Private .	40	-	400
Flint	Franklin St. . . .	Cross St.	Public .	40	1,020	-
Florence . . .	Washington St. . .	Perkins St.	Public .	40	1,280	-
Forest	Beacon St.	Cambridge Line . . .	Public .	40	150	-
Forster	Sycamore St. . . .	Central St.	Private .	30	-	430
Fountain Ave. .	Cross St.	Glen St.	Private .	30	-	550
Francesca Ave. .	Elm St.	Liberty Ave.	Private .	40	-	740
Franklin	Broadway	Washington St. . . .	Public .	40 +	2,230	-
Franklin Ave. .	Washington St. . .	Franklin St.	Private .	20	-	500
Franklin Ct. .	Somerville Ave. .	B. and L. R.R. . . .	Private .	-	-	200
Franklin Pl. . .	Franklin St. . . .	Southeasterly . . .	Private .	15	-	100
Fremont	Main St.	Northeasterly . . .	Private .	40	-	600
Fremont Ave. .	Parker St.	Easterly & westerly,	Private .	30	-	235
Frost Ave. . . .	Somerville Ave. .	Dane St.	Private .	35	-	550
Garden Ct. . .	Somerville Ave. .	Fitchburg R.R. . . .	Private .	25	-	370
Garfield Ave. .	Broadway	Mystic Ave.	Private .	40	-	1,150
Garrison Ave. .	Broadway	Southwesterly . . .	Private .	40	-	850
George	Broadway	Southwesterly . . .	Private .	40	-	350
George	Lincoln St. . . .	Mt. Vernon St. . . .	Private .	40	-	450
Gibbens	Central St. . . .	Benton Ave.	Private .	40	-	400
Giles Pl. . . .	Walnut St.	Northwesterly . . .	Private .	32.71	-	168
Gill's Ct. . . .	Franklin St. . . .	Westerly	Private .	10	-	100
Gilman	Cross St.	Walnut St.	Public .	40	1,430	-
Glass House Ct. .	Webster Ave. . . .	Easterly	Private .	40	-	200
Glen	Broadway	Tufts St.	Public .	40	2,300	-
Gorham	Holland St. . . .	Howard St.	Private .	40	-	760
Grand View Av. .	Walnut St.	Vinal Ave.	Public .	40	470	-
Granite	Somerville Ave. .	Osgood St.	Private .	40	-	400
Grant	Broadway	Mystic Ave.	Private .	40	-	1,350
Greenville . . .	Medford St. . . .	High St.	Private .	40	-	650
Grove	Elm St.	Arlington B. R.R. . .	Public .	40	600	-
Grove	Arlington B. R.R. .	Morrison St.	Private .	40	-	400
Hadley Ct. . . .	Franklin St. . . .	Westerly	Private .	20	-	150
Hall	Cedar St.	Cherry St.	Private .	30	-	350
Hall Ave. . . .	Elm St.	Liberty Ave.	Private .	40	-	910
Hamlet	Highland Ave. . .	Southwesterly . . .	Private .	30	-	400
Hammond . . .	Dickinson St. . . .	Concord Ave.	Private .	40	-	273

STREET.	From	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Hanson	Washington St..	Vine St.	Private .	35	-	750
Harding	South St.	Cambridge Line . .	Private .	30	-	100
Harris	Beacon St.	Cambridge Line . .	Private .	35	-	150
Harvard	Summer St.	Beech St.	Public .	40	650	-
Hathorn	Broadway	Arlington St. . . .	Public .	40	330	-
Hawkins	Somerville Ave.	Washington St. . .	Private .	40	-	330
Hawthorne . . .	Willow Ave. . . .	Northwesterly . . .	Private .	30	-	700
Heath	Temple St.	Brooks St.	Private .	45	-	1,800
Hennessey Ct..	Medford St. . . .	Fisk Ave.	Private .	20	-	250
Henry Ave. . . .	Highland Ave. . .	Lexington Ave. . .	Private .	40	-	290
Herbert	Chester St.	Day St.	Public .	40	360	-
High	Boston St.	Munroe St.	Private .	50	-	1,100
Highland Ave.	Medford St. . . .	Davis Sq.	Public .	60	9,100	-
Hillside Ave. . .	Pearl St.	Southwesterly . . .	Private .	30	-	150
Hinckley	Broadway	Lawrence St. . . .	Private .	30	-	430
Holland	Davis Sq.	Broadway	Public .	60	2,650	-
Holt's Ave. . . .	Oak St.	Southeasterly . . .	Private .	10	-	100
Homer Sq.	Bonner Ave. . . .	Northwesterly . . .	Private .	30 +	-	200
Horace	South St.	Fitchburg R.R. . . .	Private .	30	-	510
Houghton	Prospect St. . . .	Springfield St. . .	Private .	40	-	750
Howard	Thorndike St. . . .	Northwesterly . . .	Private .	40	-	560
Howe	Marshall St. . . .	School St.	Private .	40	-	470
Hudson	Cedar St.	Central St.	Private .	40	-	2,700
Irving	Holland St.	Broadway	Public .	40	1,180	-
Ivaloo	Beacon St.	Park	Public .	40	650	-
Ivaloo Pl.* . . .	Ivaloo St.	Mondamin Ct. . . .	Private .	40	-	330
Jackson	Medford St. . . .	Maple St.	Private .	30	-	150
James	Broadway	Holland St.	Private .	40	-	775
James	Pearl St.	Veazie St.	Private .	40	-	300
Jaques	Chauncey Ave. . .	Bond St.	Public .	40 & 45	2,250	-
Jasper	Pearl St.	Gilman St.	Private .	40	-	300
Jay	Holland St.	Howard St.	Private .	40	-	525
Jenny Lind Av.	Vernon St.	Medford St.	Public .	40	870	-
Joseph	Newton St.	Northwesterly . . .	Private .	40	-	380
Joy	Washington St..	Poplar St.	Private .	30	-	1,150
Joy St. Pl. . . .	Joy St.	Southwesterly . . .	Private .	30	-	175
Kent	Somerville Ave.	Beacon St.	Private .	25 & 40	-	740
Kent Ct.	Kent St.	Northerly	Private .	about 25	-	420
Kidder Ave. . . .	Elm St.	Liberty Ave.	Private .	40	-	610
Kingman Ct. . . .	Washington St..	Fitchburg R.R. . . .	Private .	25	-	400
Knapp	School St.	Granite St.	Private .	40	-	350
Lake	Hawkins St. . . .	Church St.	Private .	40	-	850
Lamson Ct. . . .	Linwood St. . . .	Northeasterly . . .	Private .	20	-	300
Laurel	Somerville Ave.	Summer St.	Public .	40	940	-
Lawrence	Hinckley St. . . .	B. and L. R.R. . . .	Private .	35	-	650
Lee	Medford St. . . .	Richdale Ave. . . .	Private .	40	-	385
Leland	Washington St..	Northeasterly . . .	Private .	40	-	250
Leon	Concord Ave. . . .	Dickinson St. . . .	Private .	40	-	150
Lesley Ave. . . .	Highland Ave. . .	Lexington Ave. . .	Private .	40	-	333
Leslie Pl.	Highland Ave. . .	Westerly	Private .	12	-	75
Lexington Ave.	Willow Ave. . . .	Southeasterly . . .	Private .	50	-	665
Liberty Ave. . . .	Appleton St. . . .	Northeasterly . . .	Private .	40	-	about 700
Lincoln	Broadway	Perkins St.	Public .	40	550	-
Linden	Somerville Ave.	Charlestown St. . .	Private .	30	-	600
Linden Ave. . . .	Elm St.	Summer St.	Public .	45	1,050	-
Linden Ave. . . .	Summer St.	Northeasterly . . .	Private .	45	-	250
Linden Pl.	Linden Ave. . . .	Northwesterly . . .	Private .	20	-	160
Line	Washington St..	Cambridge Line . .	Private .	33	-	1,750
Linchon Ct. . . .	Linwood St. . . .	Chestnut St.	Private .	about 15	-	200
Linwood	Somerville Ave.	Washington St. . . .	Public .	50	2,050	-
Linwood Pl. . . .	Linwood St. . . .	Southwesterly . . .	Private .	about 12	-	150
London	Linwood St. . . .	B. and L. R.R. . . .	Private .	40	-	340
Loring	Somerville Ave.	Northeasterly . . .	Private .	40	-	400
Lowell	Somerville Ave.	Crown St.	Private .	33 +	-	1,600
Lowell	B. & L. R.R. . . .	Medford St.	Private .	33 +	-	1,150

* Proposed.

STREET.	From	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Madison . . .	School St. . . .	Sycamore St. . . .	Private .	40	-	850
Main	Broadway	Medford Line . . .	Public .	50	950	-
Malloy Ct. . .	Somerville Ave. .	Southwesterly . . .	Private .	40	-	200
Maple	Poplar St.	Jackson St.	Private .	30	-	470
Maple Ave. . .	School St.	Southeasterly . . .	Private .	40	-	300
Maple Pl. . . .	White St.	Southeasterly . . .	Private .	20	-	200
Marion	Concord Ave. . . .	Adrian St.	Private .	40	-	170
Marrett Pl. . .	Walnut St.	Northwesterly . . .	Private .	40	-	195
Marshall	Broadway	Pearl St.	Public .	40	1,650	-
Mason Ave. . .	Orchard St.	Cambridge Line . . .	Private .	35	-	220
May Pl.	Hawkins St.	Easterly	Private .	12	-	100
Meacham	Orchard St.	Cambridge Line . . .	Public .	40	100	-
Meacham	Arlington B.R.R. .	Orchard St.	Private .	40	-	600
Meacham	Mt. Vernon Ave. . .	Medford Line	Private .	40	-	800
Mead	Cameron Ave. . . .	Moore St.	Private .	40	-	340
Medford	Cambridge Line . . .	Medford Line	Public .	50 & 55	10,100	-
Melvin	Bonair St.	Northeasterly . . .	Private .	35	-	150
Merriam	Somerville Ave. . .	Charlestown St. . . .	Private .	30	-	500
Middlesex Ave. .	Mystic Ave.	Medford Line	Public .	60	3,400	-
Milk St. Pl. . .	Somerville Ave. . .	Southwesterly . . .	Private .	about 30	-	100
Miller	Sacramento St. . .	Northwesterly . . .	Private .	33	-	350
Mills	Walnut St.	Sargent Ave.	Private .	40	-	500
Mondamin Ct. .	Ivaloo St.	Ivaloo Pl.	Private .	25	-	250
Montgomery Av. .	Broadway	Wellington Ave. . . .	Private .	40	-	265
Montrose	School St.	Sycamore St.	Private .	40	-	850
Moore	Holland St.	Mead St.	Private .	40	-	1,200
Morgan	Beacon St.	Park St.	Public .	40	-	350
Morrison	Willow Ave.	Elm St.	Public .	40	1,700	-
Morrison * . . .	Willow Ave.	Cedar St.	Private .	40	-	1,300
Mortimer Pl. . .	Marshall St.	Southeasterly . . .	Private .	20	-	150
Mossland	Somerville Ave. . .	Elm St.	Public .	40	350	-
Mousal Pl. . . .	Canal St.	B. and M. R.R. . . .	Private .	20	-	200
Mt. Pleasant . .	Broadway	Perkins St.	Public .	33	570	-
Mt. Pleasant Ct. .	Perkins St.	Southwesterly . . .	Private .	40	-	250
Mt. Pleasant Av. .	Curtis St.	Northwesterly . . .	Private .	40	-	700
Mt. Vernon . . .	Washington St. . . .	Broadway	Public .	40 & 50	1,640	-
Mt. Vernon Av. .	Main St.	Meacham St.	Private .	50	-	800
Munroe	Walnut St.	High St.	Private .	40	-	400
Murdock	Cedar St.	Clyde St.	Private .	30	-	900
Murray	Washington St. . . .	Southerly	Private .	30	-	about 250
Myrtle	Washington St. . . .	Perkins St.	Public .	40	1,400	-
Myrtle Ct. . . .	Myrtle St.	Easterly	Private .	10	-	100
Mystic	Washington St. . . .	Somerville Ave. . . .	Public .	40	360	-
Mystic	Benedict St.	Mystic Ave.	Private .	40	-	330
Mystic Ave. . . .	Charlestown Line . .	Medford Line	Public .	60 & 66	7,250	-
Nashua	Appleton St.	B. and L. R.R. . . .	Private .	35	-	640
Nevada Ave. . . .	Village St.	Hanson St.	Private .	20	-	200
Newberne	Appleton St.	Morrison St.	Private .	40	-	280
Newbury	Holland St.	Cambridge Line . . .	Public .	40	1,250	-
Newton	Webster Ave.	Concord Ave.	Public .	40 +	650	-
Norfolk	Webster Ave.	Cambridge Line . . .	Public .	40	200	-
North	Broadway	Medford Line	Public .	40	2,550	-
North Union . . .	Mystic Ave.	Northeasterly . . .	Private .	30	-	600
Norwood Ave. . .	Broadway	Medford St.	Private .	40	-	350
Oak	Prospect St.	Angle	Public .	40	670	-
Oak	Angle	Cambridge Line . . .	Private .	30	-	530
Oak St. Pl. . . .	Oak St.	Northerly	Private .	4	-	85
Oakland Ave. . .	Marshall St.	School St.	Public .	40	440	-
Olive Sq.	Lake St.	Southerly	Private .	about 15	-	100
Oliver	Franklin St.	Cross St.	Public .	40	1,050	-
Orange *	Broadway	Cedar St.	Private .	40	-	1,175
Orchard	Cambridge Line . . .	Meacham St.	Public .	40	1,625	-
Orient *	Morrison St.	Orange St.	Private .	40	-	1,240
Osgood	Granite St.	Easterly & westerly .	Private .	40	-	450
Otis	Cross St.	Wigglesworth St. . .	Public .	40	1,200	-
Oxford	School St.	Central St.	Private .	30 +	-	1,330
Oxford	Beacon St.	Cambridge Line . . .	Public .	50	100	-

* Proposed.

STREET.	From	To	Public or Private.	Width in Feet.	LENGTH.	
					Publie.	Private.
Packard Ave. . .	Broadway . . .	Medford Line . . .	Private .	60	-	2,000
Palmer Ave. . .	Franklin St. . .	Northwesterly . . .	Private .	20	-	200
Park	Somerville Ave.	Beacon St.	Public .	50	1,300	-
Park Ave. . . .	Elm St.	Wallace St.	Public .	40	450	-
Parker	Washington St..	Fremont Ave.	Private .	35	-	200
Parker Pl. . . .	Porter St.	Northwesterly . . .	Private .	20	-	150
Partridge Ave.	Vernon St. . . .	Broadway	Private .	40	-	1,500
Patten Ct. . . .	Cutter St.	Southeasterly . . .	Private .	8	-	100
Pearl	Creseent St. . . .	Medford St.	Public .	40 & 50	4,750	-
Pearl St. Pl. . .	Pearl St.	Northeasterly . . .	Private .	20	-	200
Pembroke	Central St.	Syeamore St.	Private .	40	-	440
Perkins	Franklin St. . . .	Charlestown Line .	Public .	40	1,350	-
Perkins Pl. . . .	Perkins St.	Northeasterly . . .	Private .	20	-	200
Pinckney	Washington St..	Perkins St.	Public .	40	1,170	-
Pitman	Beech St.	Belmont St.	Private .	30	-	800
Pleasant Ave. . .	Walnut St.	Vinal Ave.	Public .	40	470	-
Poplar	Somerville Ave.	Joy St.	Private .	30 & 35	-	650
Porter	Elm St.	Summer St.	Public .	45	1,150	-
Porter	Summer St.	Brastow Ave.	Private .	45	-	200
Preseott	Summer St.	Highland Ave. . . .	Public .	50	1,050	-
Preston	School St.	Summer St.	Public .	40	800	-
Professors' Row,	College Ave. . . .	Curtis St.	Private .	40	-	1,900
Prospect	Washington St..	Cambridge Line . .	Public .	40 & 50	2,050	-
Prosp't Hill Av.	Medford St. . . .	High St.	Public .	40	450	-
Prospect Pl. . .	Prospect St. . . .	Brick-yard Lane . .	Private .	20	-	180
Putnam	Summer St.	Highland Ave. . . .	Public .	50	1,240	-
Quiney	Somerville Ave.	Summer St.	Public .	40	700	-
Rand *	Morrison St. . . .	Orange St.	Private .	40	-	1,630
Raymond Ave.	Curtis St.	North St.	Private .	40	-	1,350
Records' Pl. . .	Broadway	Southwesterly . . .	Private .	10	-	110
Reed's Ct. . . .	Oliver St.	Southwesterly . . .	Private .	20	-	105
Remiek Ct. . . .	Cutter St.	Southeasterly . . .	Private .	10	-	100
Riehdale Ave. . .	School St.	Syeamore St.	Private .	40	-	850
Roseland	Beacon St.	Cambridge Line . .	Public .	40	100	-
Runey	Cross St.	Aldrich St.	Private .	40	-	760
Rush	Broadway	Flint St.	Public .	40	1,400	-
Russell	Elm St.	Cambridge Line . .	Public .	40	700	-
Sacramento . . .	Somerville Ave.	Cambridge Line . .	Private .	40	-	660
Sanborn Ave. . .	Warren Ave. . . .	Walnut St.	Private .	40	-	300
Sargent Ave. . .	Broadway	Mills St.	Private .	40	-	450
School St. . . .	Somerville Ave.	Broadway	Public .	40 & 50	4,370	-
Sellon Ct.	Marshall St. . . .	Northwesterly . . .	Private .	12	-	120
Sewall	Grant St.	Temple St.	Private .	40	-	650
Sewall Ct. . . .	Sewall St.	Southwesterly . . .	Private .	25	-	190
Shawmut	Washington St..	Cross St.	Public .	40	550	-
Shawmut Pl. . .	Shawmut St. . . .	Alston St.	Private .	30	-	200
Sherman	Somerville Ave.	Frost Ave.	Private .	35	-	270
Sibley Ct. . . .	Cutter St.	Northwesterly . . .	Private .	10	-	100
Sibley Pl.	Cutter St.	Northwesterly . . .	Private .	10	-	100
Simpson Ave. . .	Broadway	Holland St.	Private .	40	-	825
Skehan	Hanson St.	Dane St.	Private .	30	-	300
Smith Ave. . . .	Beacon St.	Line St.	Private .	25 +	-	200
Somerville Ave.	E. Camb'ge Line	N. Cambridge Line .	Public .	70 & 75	11,100	-
South	Medford St. . . .	Westerly	Private .	30	-	940
Spring	Somerville Ave.	Summer St.	Public .	35	1,200	-
Spring Ct. . . .	Somerville Ave.	Westerly	Private .	20	-	200
Springfield . . .	Concord Ave. . . .	Cambridge Line . .	Public .	40	800	-
Stickney	Marshall St. . . .	School St.	Private .	40	-	450
St. James Ave.	Elm St.	Summer St.	Private .	40	-	488
Stone Ave. . . .	Union Sq.	Columbus Ave. . . .	Private .	40	-	675
Stone Pl.	Stone Ave.	Southeasterly . . .	Private .	30	-	145
Summer	Bow St.	Elm St.	Public .	45	7,700	-
Summit Ave. . .	Walnut St.	Vinal Ave.	Public .	45	470	-
Sunnyside Ave.	Walnut St.	Wigglesworth St. .	Private .	35	-	250
Syeamore	Broadway	Medford St.	Public .	45	1,250	-
Syeamore	Medford St. . . .	Highland Ave. . . .	Private .	33 & 40	-	1,350
Sydney	Wheatland St. . .	Temple St.	Private .	40	-	925

* Proposed.

STREET.	From	To	Public or Private.	Width in Feet.	LENGTH.	
					Public.	Private.
Taggard Ct. . .	Beacon St. . .	Northeasterly . . .	Private .	15	-	200
Taylor's Pl. . .	Somerville Ave. . .	Southerly . . .	Private .	15	-	200
Temple St. . .	Broadway . . .	Mystic Ave. . .	Public .	66	1,540	-
Tenney Ct. . .	Mystic Ave. . .	Northeasterly . . .	Private .	30	-	400
Tennyson . . .	Forster St. . .	Pembroke St. . .	Private .	40	-	900
Thorndike . . .	Holland St. . .	Arlington B. R.R. . .	Private .	40	-	400
Thorpe Pl. . .	Highland Ave. . .	Southwesterly . . .	Private .	30	-	450
Thurston . . .	Broadway . . .	Medford St. . .	Public .	40	1,350	-
Thurston . . .	Medford St. . .	Richdale Ave. . .	Private .	40	-	300
Tower * . . .	Crown St. . .	Highland Ave. . .	Private .	40	-	550
Tower Ct. . .	Tyler St. . .	Northeasterly . . .	Private .	25	-	150
Tremont . . .	Webster Ave. . .	Cambridge Line . . .	Private .	40	-	450
Trull	Vernon St. . .	Medford St. . .	Private .	40	-	1,050
Trull Lane . . .	Highland Ave. . .	Oxford St. . .	Private .	15	-	200
Tube Works Ct. . .	Somerville Ave. . .	Southwesterly . . .	Private .	20	-	150
Tufts	Washington St. . .	Cross St. . .	Public .	40	940	-
Tyler	Vine St. . .	Dane St. . .	Private .	40	-	400
Union	Broadway . . .	Mystic Ave. . .	Public .	40	330	-
Union Pl. . . .	Linwood St. . .	Southwesterly . . .	Private .	10	-	100
Veazie	Walnut St. . .	Bradley St. . .	Private .	40	-	650
Vernon	Central St. . .	Jenny Lind Ave. . .	Public .	40	740	-
Vernon	Jenny Lind Ave. . .	Lowell St. . .	Private .	30	-	600
Villa Ave. . . .	Winslow Ave. . .	Arlington B. R.R. . .	Private .	40	-	200
Village	Dane St. . .	Vine St. . .	Private .	25	-	370
Vinal Ave. . . .	Summer St. . .	Highland Ave. . .	Public .	45	1,400	-
Vine	Somerville Ave. . .	Beacon St. . .	Private .	25 & 40	-	1,400
Virginia	Aldrich St. . .	Jasper St. . .	Private .	40	-	350
Wallace	Holland St. . .	Broadway . . .	Public .	40	1,350	-
Walnut	Bow St. . .	Broadway . . .	Public .	40	3,830	-
Ward	Medford St. . .	Earl St. . .	Private .	30	-	610
Warren	Medford St. . .	Cambridge Line . . .	Private .	30	-	100
Warren Ave. . . .	Union Sq. . .	Columbus Ave. . .	Public .	40	650	-
Warwick	Cedar St. . .	Southeasterly . . .	Private .	40	-	630
Washington	Charlestown Line . . .	Cambridge Line . . .	Public .	60 to 100	7,250	-
Washington Av. . . .	Washington St. . .	Northerly . . .	Private .	18	-	350
Water	South St. . .	Northerly . . .	Private .	25	-	250
Waverly	Washington St. . .	Southerly . . .	Private .	35	-	200
Weare	Curtis St. . .	Northwesterly . . .	Private .	40	-	700
Webster	Franklin St. . .	Cross St. . .	Public .	40	1,000	-
Webster Ave. . . .	Union Sq. . .	Cambridge Line . . .	Public .	49.5	1,950	-
Wellington Ave. . . .	Walnut St. . .	Southeasterly . . .	Private .	40	-	300
Wesley	Otis St. . .	Southwesterly . . .	Private .	30	-	150
Wesley Park	Wesley Sq. . .	Northeasterly . . .	Private .	40	-	405
West	Broadway . . .	Heath St. . .	Private .	30	-	250
West	Hawthorne St. . .	Arlington B. R.R. . .	Private .	30	-	590
Weston Ave. . . .	Clarendon Ave. . .	Broadway . . .	Private .	40	-	525
Wheatland	Broadway . . .	Mystic Ave. . .	Private .	40	-	1,350
Whipple	Hawthorne St. . .	Arlington B. R.R. . .	Private .	30	-	575
Wigglesworth	Bonair St. . .	Southwesterly . . .	Private .	40	-	500
William	Chandler St. . .	Elm St. . .	Private .	40	-	400
Williams Ct. . . .	Porter St. . .	Northwesterly . . .	Private .	30	-	150
Willoughby	Central St. . .	Sycamore St. . .	Private .	30	-	400
Willow Ave. . . .	Elm St. . .	Broadway . . .	Public .	50	3,440	-
Willow Pl. . . .	Cambridge Line . . .	South St. . .	Private .	25	-	150
Wilton	Lowell St. . .	Lawrence St. . .	Private .	35	-	470
Winslow Ave. . . .	Elm St. . .	Grove St. . .	Private .	40	-	470
Winter	Elm St. . .	Holland St. . .	Private .	30	-	430
Winthrop Ave. . . .	Broadway . . .	Mystic Ave. . .	Public .	50	1,170	-
Woodbine	Centre St. . .	Lowell St. . .	Private .	30	-	600
Wyatt	Concord Ave. . .	Northerly . . .	Private .	40	-	400
Wyatt Ct. . . .	Wyatt St. . .	Westerly . . .	Private .	13	-	200
Total . . . .	. . . . .	. . . . .	. . . . .	. . . . .	222,917	158,516

Public, 42.22 miles ; private, 30.02 miles.

* Proposed.

REPORT

OF THE

COMMITTEE ON FIRE DEPARTMENT.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Dec. 30, 1887.

Accepted and referred to the next city council, to be printed in the annual reports. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Dec. 30, 1887.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON FIRE DEPARTMENT, Dec. 30, 1887.

To the City Council:—

The committee on Fire Department submits the following final report for the year 1887:—

The working force and the equipment have not been increased during the year, except by the placing of chemical tanks upon hose and ladder truck No. 4, at a cost of \$1,000; and they have proved a very valuable acquisition. Five horses have been bought to take the places of three old ones sold this year and one sold last year and one about twenty years old that died. Fifteen hundred feet of jacket hose have been purchased, at a cost of \$975.

The annual report of the chief engineer is presented herewith, and we recommend that it be printed as usual. He suggests a few measures for increasing the efficiency of the department, all of which are worthy of consideration, but especially the one concerning a subdivision of our fire-alarm circuits. A fire-alarm system for a city so large as ours should be divided into more than three circuits, to insure that degree of protection which our property owners have a right to expect. In case of the failure of one circuit to work, the territory it serves is so large that considerable time may be required to reach a box on another circuit; and, in addition to this, valuable time be wasted by taking the apparatus to a box at a distance from the fire, instead of one in its immediate vicinity.

As the first few minutes after a fire breaks out are often decisive of the result, and as the danger of temporary interruption in the working of any circuit in the fire-alarm system is daily increasing by the erection of additional telephone and electric-light wires, the imperative necessity for subdividing these circuits must be apparent to all. The estimated cost of this improvement is \$1,800.

The appropriation, receipts, and expenses for the year are as follows : —

FIRE DEPARTMENT ACCOUNT.

CREDIT.

Appropriation	\$26,000 00	
Receipts for property sold	278 60	
		<hr/>
Total credit		\$26,278 60

DEBIT.

Expenses : —

For salaries of permanent men	\$9,780 00	
“ “ call-men	4,923 99	
substitute drivers	331 95	
improvements and repairs of apparatus and vehicles	1,464 05	
improvements and repairs of buildings and furniture, and new furniture	1,804 98	
maintenance and extension of fire-alarm telegraph, including one new box and a switch-board	1,018 71	
hose and hose pipes, and repairing same	1,165 50	
new horses (and one old horse given in trade)	1,050 00	
grain and feed	496 82	
hay and straw	831 43	
horse-shoeing	240 00	
horse doctoring and medicine	89 40	
harnesses, and repairing same	63 89	
fuel	324 66	
supplies	246 51	
water for hydrants	1,848 00	
“ “ department buildings	105 00	
gas	319 19	
insurance	98 75	
		<hr/>
<i>Amounts carried forward</i>	<i>\$26,202 83</i>	<i>\$26,278 60</i>

REPORT OF COMMITTEE ON FIRE DEPARTMENT. 275

<i>Amounts brought forward</i>	.	.	.	.	\$26,202 83	\$26,278 60
washing and ironing	.	.	.	.	134 27	
maintenance of reservoirs	.	.	.	.	60	
“ “ hand fire - extin-						
guishers	.	.	.	.	117 66	
telephones	.	.	.	.	60 98	
incidentals	.	.	.	.	218 75	
<hr/>						
Total debit	.	.	.	.	.	26,735 09
<hr/>						
Amount overdrawn	.	.	.	.	.	\$456 49

For the committee,

BERNARD W. LAWRENCE, *Chairman.*
GEO. I. VINCENT, *Clerk.*

REPORT

OF THE

CHIEF ENGINEER OF FIRE DEPARTMENT.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Dec. 30, 1887.

Referred to the next city council, to be printed in the annual reports.
Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Dec. 30, 1887.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

DEC. 30, 1887.

To the Committee on Fire Department.

GENTLEMEN, — In conformity to established usage, I present herewith my annual report, containing a detailed statement of the condition and operations of the Fire Department during the year ending Dec. 31, 1887, and also recommendations of such improvements and additions to the *personnel* and *materiel* of the department as seem to me required.

MANUAL FORCE.

This consists of —

One chief engineer	1
One assistant engineer	1
One steam fire-engine company	12
Four hose companies, eight men each	32
One hook and ladder company	15
Total	<hr/> 61

APPARATUS.

All the apparatus is substantially in good condition.

By the placing of two tanks, each having a capacity of thirty-five gallons, upon the hose and ladder carriage in charge of company No. 4, a chemical engine has been provided which has already demonstrated superior qualities as a fire-extinguishing agent. To secure its most effective operation, an additional permanent man is necessary, and I recommend that one be appointed.

The long single ladders now carried on the hook and ladder truck are undesirable for several reasons, and I recommend that they be replaced by ladders of the "telescope" pattern. The objectionable feature of the first named is, — that difficulty is liable to be experienced, particularly at night, in raising them in

those streets through which lines of telegraph wire are run close to the buildings. It will readily be seen that "telescopic" ladders are superior for use under such circumstances. Again, by the use of sectional ladders, the load upon the truck would be concentrated, and the vibratory motion of the projecting ends of the longer ladders materially lessened, thus making the load much easier of draught, while less room would be required for turning the truck.

I again call attention to the inadequately protected

SPRING HILL DISTRICT,

wherein are situated the Middlesex Bleachery, the American Tube Works, the Union and Cambridge Railroad stables, Chase's Distillery, Reitenbach's Tannery, the Franklin Schoolhouse, Miller Brothers casket factory, and many dwelling-houses, stables, shops, and stores.

To give this territory protection commensurate with that accorded other sections of the city, a hose carriage, at least, ought to be stationed upon the City Ledge land on Somerville Avenue and Lowell Street. Thus stationed, this piece of apparatus would be the first to arrive at a fire in that vicinity, and would also be early upon the scene of a fire in West Somerville, where large and expensive business blocks, and numerous buildings, miscellaneous in character, have been recently erected. A house built upon the above-mentioned site, or elsewhere in the district, should be made sufficiently capacious to accommodate an engine and a hose carriage, which will ultimately be needed, if the increase in material prosperity in this direction, in the future, be proportionate to that which has been manifest within the past few years.

HORSES.

Two new pairs of horses were purchased for the steamer hose carriage and hose carriage No. 4, respectively. A horse was also bought for the use of the chief.

New pairs of horses for hose No. 2 and hook and ladder No. 1 will be necessary early the coming year.

BUILDINGS.

Extensive improvements and repairs have been made in the department buildings during the year.

The upper rooms in hose house No. 1 were painted and papered, and the roof was shingled and the building painted outside.

The stairway between the first and second floors of engine house No. 1 was removed from the building proper to an annex built upon the westerly side, thus giving the apparatus and horses the benefit of the entire area of the engine-room floor.

A new floor should be laid in the engine-room, and the whole interior of the building is greatly in need of painting and whitening.

The driveway from the main doors to the street was paved with block granite.

New floors of maple were laid in the houses of hose companies 2 and 4.

Storage sheds, similar to the one in rear of hose house No. 1, would be of great convenience on the premises of hose houses 2 and 4.

FIRE-ALARM TELEGRAPH.

The great increase in the number of despatch, telephone, and electric-light lines necessitated the re-location of the fire-alarm wires in different parts of the city, and caused much trouble and considerable expense.

Two new signal boxes, viz., 37 and 119, were put up, and eight miles of copper wire were run.

This branch of the department now comprises 40 signal boxes, 40 miles of wire, 18 gongs, 6 bell-strikers, and 5 indicators.

I repeat a suggestion made in a former report, that the three circuits at present composing our alarm system be subdivided into eight; so that in the event of injury to any one circuit, only a comparatively small portion of the city would be without the alarm, while the proximity of a box on another circuit would render the deprivation of less moment to the district immediately affected.

For obvious reasons, the importance of having the fire-alarm constantly in perfect working condition cannot be over-estimated; and I therefore ask your committee to consider the expediency of employing a suitable person as a lineman, who shall have charge of the telegraph under the direction of the chief.

HOSE.

There are in service 8,000 feet of hose, 1,000 feet of which will soon have to be replaced.

HYDRANTS.

I am pleased to say that six new post hydrants were substituted for six hydrants of the "flush" pattern on Heath and Fremont Streets, at the expense of the city of Boston; and that six old flush hydrants were replaced by an equal number of post hydrants on Cambridge pipe, near the Somerville line, at the expense of the first-named city. These improved facilities for obtaining water in case of fire have long been desired, and were secured chiefly through the efforts of his Honor Mayor Burns.

Twenty-two new hydrants were set during the year.

FIRE ALARMS.

The number of bell alarms given in the city during the year was 56, and there was 1 still alarm. Total, 57.

Loss on property by fire	\$7,473 50
Insurance on said property	21,450 00
Amount of insurance paid	4,907 00

CAUSES OF FIRE.

Incendiary	3
Boiling over of fat	1
Drying wood in oven	1
Oil stove	2
Drying plastering	3
Burning of rubbish	8
Cigar-stub in waste-basket	1
Burning of grass	1
Smoking in bed	1
Coals from fire-box falling in shavings	1
Children playing with matches	2
Chimneys	3
Fireworks	7
Smoke from baker's oven	1
Falling of building	1
Railroad bridge	1
Lighted cigarette falling in trunk	1
Furnace floor supported by wood	1
Defective flue	2

Heating apparatus in greenhouse	1
Overheated furnace	3
Hot coals falling on floor	1
Combustible stove-polish	1
False alarm	1
Breaking of kerosene lamp	1
Smoking in hay loft	1
Carelessness in trimming lamps	1
Sparks from tobacco pipe	1
“ “ tinner’s stove	1
“ “ locomotive	1
“ on roof from chimney	2
Thawing of water-pipe	1
<hr/>	
Total number of alarms	57

To his Honor the Mayor, the chairman and members of the committee on Fire Department, and the officers and members of the police force, my thanks are due for hearty co-operation throughout the year.

Respectfully submitted,

JAMES R. HOPKINS,
Chief of Fire Department.

REPORT
OF THE
COMMITTEE ON PUBLIC PROPERTY.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Dec. 30, 1887.

Ordered to be filed with the city clerk for presentation to the next city council, to be printed in the annual reports. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk pro tem.*

IN COMMON COUNCIL, Dec. 30, 1887.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON PUBLIC PROPERTY, Dec. 31, 1887.

To the City Council of Somerville:—

The committee on public property presents the following final report for the year 1887:—

POLICE STATION INCIDENTALS ACCOUNT.

CREDIT.

Appropriation	\$2,000 00	
Receipts for rent of halls	469 00	
Total credit		\$2,469 00

DEBIT.

Expenditures:—

For janitor's salary	\$750 00	
janitor's substitute in vacation	14 00	
gas	446 17	
fuel	359 36	
water	35 00	
insurance	20 00	
repairs and improvements of building and furniture (exclusive of \$201.44 for repairs of officers' rooms in Armory charged to miscellaneous account)	257 70	
incidentals	23 98	
Total debit		1,906 21
Balance unexpended		\$562 79

SCHOOLHOUSE INCIDENTALS ACCOUNT.

CREDIT.

Appropriation	\$10,000 00	
Transfer from school fuel account . .	1,000 00	
“ “ street lights account . .	1,500 00	
“ “ water-loan interest ac- count	500 00	
Receipts for use of rooms in schoolhouses,	5 00	
		<hr/>
Total credit		\$13,005 00

DEBIT.

Expenditures : —

For repairs	\$5,179 90	
improvements	6,333 52	
furniture	320 98	
rent	160 25	
insurance	1,527 50	
emptying privy vaults	64 00	
sidewalk assessment (Tufts Street),	41 88	
wheelbarrow and shovel (for use on grounds)	2 90	
carriage hire	5 00	
		<hr/>
Total debit		13,635 93
		<hr/>
Amount overdrawn		\$630 93
		<hr/>

The expenditures at the different schoolhouses are as follows : —

Beach Street.

Repairs (including re-shingling east side)	\$220 19	
Insurance	33 75	
		<hr/>
		\$253 94
		<hr/>
Amount carried forward		\$253 94

REPORT OF COMMITTEE ON PUBLIC PROPERTY. 289

Amount brought forward \$253 94

Luther V. Bell.

Repairs \$263 68

Improvements: —

New water closets in yard, —

contract and extras

(paid A. C. Win-

ning) \$2,948 36

steam heating work 100 50

additional plumbing 23 47

“ carpentering, 23 63

plans 73 00

3,168 96

Furniture 31 57

Insurance 377 50

3,841 71

Bennett.

Repairs (including new privy vaults,
\$123.61) \$267 44

Emptying privy vaults 16 00

Insurance 90 00

373 44

Bingham.

Repairs \$2 95

Furniture 2 95

Insurance 9 00

14 90

Brastow.

Repairs \$48 82

Furniture 6 32

Insurance 37 50

92 64

Burns.

Repairs \$1 05

Furniture 4 50

Insurance 9 00

14 55

Amount carried forward \$4,591 18

Amount brought forward \$4,591 18

Cedar Street.

Repairs	\$27 43	
Emptying privy vaults	12 00	
	<hr/>	39 43

Clarendon Block.

Rent	\$160 25	
Repairs (removing furniture)	5 50	
	<hr/>	165 75

Cummings.

Repairs		31 90
-------------------	--	-------

Davis.

Repairs (including furnace work, \$43.05),	\$92 76	
Furniture	5 74	
Sidewalk assessment	41 88	
	<hr/>	140 38

Edgerly.

Repairs	\$245 92	
Furniture	13 18	
Insurance	202 50	
	<hr/>	461 60

Elm Street (corner Winter Street).

Repairs (putting in furniture and water-closets)	\$124 00	
Furniture (new)	2 30	
	<hr/>	126 30

Forster.

Repairs	\$187 53	
Furniture	76 40	
Insurance	46 50	
	<hr/>	310 43

Franklin.

Repairs	\$162 51	
Emptying privy vaults	12 00	
	<hr/>	174 51

<i>Amount carried forward</i>		<hr/> \$6,041 48
---	--	------------------

REPORT OF COMMITTEE ON PUBLIC PROPERTY. 291

Amount brought forward \$6,041 48

Harvard.

Repairs 26 99

High.

Repairs (including new return pipes to boiler, \$197.54)	\$490 51	
Furniture	34 48	
Insurance	395 00	
	<hr/>	919 99

Highland.

Repairs	\$309 70	
Improvements (concrete walk west side schoolhouse)	194 40	
Furniture	45 99	
	<hr/>	550 09

Jackson.

Repairs (including new floors, \$247.48, and new plumbing, \$182.80) . .	\$598 96	
Emptying privy vaults	16 00	
	<hr/>	614 96

Lincoln.

Repairs	\$67 29	
Emptying privy vaults	8 00	
	<hr/>	75 29

Morse.

Repairs (including furnace work, \$277.- 89)	\$503 51	
Furniture	89 15	
Insurance	75 00	
	<hr/>	667 66

Prescott.

Repairs	\$182 46	
Improvements : —		
New water-closets in basement, — plumbing (paid C. A. Legallee)	\$1,188 04	
carpentering	718 28	
	<hr/>	

<i>Am'ts carried forw'd</i> .	\$1,906 32	\$182 46	\$8,896 46
-------------------------------	------------	----------	------------

<i>Am'ts brought forw'd</i>	.	\$1,906 32	\$182 46	\$8,896 46
mason work	.	409 54		
lumber	.	81 13		
hardware	.	18 37		
steam-piping	.	79 69		
extension on urinal	.	75 00		
concreting	.	57 60		
painting	.	80 00		
		<hr/>	2,707 65	
Furniture	.	.	8 40	
Insurance	.	.	143 75	
			<hr/>	3,042 26

Prospect Hill.

Repairs (including furnace-work, \$187.-02; re-slating, \$249.64; new gutters and general outside repairs, \$304.44; and painting outside, \$300) \$1,202 74

Improvements: —

Excavating for cellar, and plastering cellar ceiling	.	.	262 51	
Insurance	.	.	56 25	
			<hr/>	1,521 50

Spring Hill.

Repairs	.	.	\$21 42	
Insurance	.	.	18 00	
			<hr/>	39 42

Union.

Repairs	.	.	.	38 01
---------	---	---	---	-------

Webster.

Repairs	.	.	\$56 63	
Insurance	.	.	33 75	
			<hr/>	90 38

Wheelbarrow and shovel for use on grounds	.	.	.	2 90
Carriage hire	.	.	.	5 00

\$13,635 93

SCHOOLHOUSE IN WARD THREE (BINGHAM SCHOOL)
ACCOUNT.

CREDIT.

Appropriation : —

Balance from year 1886	.	.	.	\$668 26
Appropriated in 1887	.	.	.	7,000 00
Total credit	.	.	.	\$7,668 26

DEBIT.

Expenditures : —

For building, —

balance on contract	.	\$4,900 00
“ to architect	.	76 00
extra on chimneys and		
water-closets	.	50 00
changing doors	.	11 50
additional carpentering		
(including fence)	.	54 21
additional plumbing	.	25 02
tablets, and lettering		
same	.	90 00
blackboards	.	38 21
cellar-window guards	.	30 54
additional concreting	.	72 00
resetting glass, and		
expressing	.	3 55
hardware and tools	.	13 65
cleaning building	.	17 00
fuel, temporary fur-		
naces, and running		
same	.	117 38
		<hr/> \$5,499 06
furniture, and placing		
same	.	657 59
steam heating apparatus		
(contract)	.	\$1,042 50
plans and specifications		
for same	.	12 50
		<hr/> 1,055 00
Amounts carried forward	.	\$7,211 65
		<hr/> \$7,668 26

<i>Amounts brought forward</i>	.	.	\$7,211 65	\$7,668 26
For grading	.	.	61 50	
			<hr/>	
Total debit	.	.	.	7,273 15
				<hr/>
Balance unexpended	.	.	.	\$395 11
				<hr/>

SCHOOLHOUSE IN WARD FOUR (BURNS SCHOOL) ACCOUNT.

CREDIT.

Appropriation : —

Balance from year 1886	.	.	\$816 68	
Appropriated in 1887	.	.	7,000 00	
			<hr/>	
Total credit	.	.	.	\$7,816 68

DEBIT.

Expenditures : —

For building, —

balance on contract	.	\$5,100 00	
“ to architect	.	76 00	
extra on chimneys and			
water-closets	.	50 00	
changing doors	.	11 50	
additional carpentering			
(including fence)	.	47 27	
additional plumbing	.	25 03	
tablets, and lettering			
same	.	90 00	
blackboards	.	36 81	
cellar-window guards	.	30 54	
additional concreting	.	72 00	
edgestones for addi-			
tional steps	.	29 58	
hardware and tools	.	16 13	
expressing	.	2 90	
fuel, temporary fur-			
naces, and running			
same	.	99 19	
cleaning building	.	17 00	
		<hr/>	\$5,703 95

<i>Amounts carried forward</i>	.	.	\$5,703 95	\$7,816 68
--------------------------------	---	---	------------	------------

<i>Amounts brought forward</i>	.	.	\$5,703 95	\$7,816 68
For furniture, and placing				
same	.	.	686 85	
steam heating apparatus				
(contract)	.	.	\$1,042 50	
plans and specifications				
for same	.	.	12 50	
			<hr/>	
			1,055 00	
grading and gravel	.	.	120 40	
			<hr/>	
Total debit	.	.	.	7,566 20
				<hr/>
Balance unexpended	.	.	.	\$250 48
				<hr/>

EXPENDITURES BY THIS COMMITTEE FROM MISCELLANEOUS ACCOUNT.

For City Hall expenses: —

gas	.	.	.	.	.	\$287 93	
fuel	.	.	.	.	.	201 77	
water	.	.	.	.	.	23 44	
ice (for 1886 and 1887)	.	.	.	.	.	65 00	
labor on grounds (in 1886)	.	.	.	.	.	27 00	
telephone connections	.	.	.	.	.	37 71	
insurance	.	.	.	.	.	187 50	
repairs and furniture	.	.	.	.	.	269 90	
incidentals	.	.	.	.	.	112 70	
						<hr/>	\$1,212 95
preparing rooms for caucuses and elections	.	.	.	.	.	39 99	
rent of rooms for	"	"	"	.	.	80 00	
repairing ballot-boxes	.	.	.	.	.	11 20	
preparing hall for inauguration	.	.	.	.	.	10 60	
care of flags and flag-staffs	.	.	.	.	.	28 28	
work at cemetery	.	.	.	.	.	14 00	
one-half cost of division-fence at old Lincoln							
School lot	.	.	.	.	.	15 00	
padlock and keys for city pound	.	.	.	.	.	1 87	
ringing bells on holidays	.	.	.	.	.	9 00	
						<hr/>	
<i>Amount carried forward</i>	.	.	.	.	.		\$1,422 89

<i>Amount brought forward</i>	\$1,422 89
For repairing and improving officers' rooms at Armory (exclusive of repairs on radiators, paid from police station incidentals account, \$15.60)	201 44
city messenger's team, and maintenance of same	761 95
	<hr/>
	\$2,386 28
	<hr/>

SCHOOLHOUSE INCIDENTALS ACCOUNT.

The principal improvements on school property have been made at the Bell and Prescott Schools by providing new water-closets, constant complaint having been made for several years of the unsanitary condition of the old ones.

At the Prescott School new closets have been constructed in the basement, on plans made by the superintendent of public buildings and lights, under the supervision of this committee. Short hoppers were used and thorough ventilation was provided, and the job gives complete satisfaction. The cost was \$2,707.65.

At the Bell School it was our intention to place water-closets in the basement like those provided at the Prescott School; but the City Council, in compliance with the urgent solicitation of the members of the school committee and other citizens of Ward Two, ordered that the improvement be made by enlarging the old water-closets in the yard. The members of the school committee from Ward Two laid before this committee, and recommended, plans made by S. D. Kelley, architect, providing for water-closets with latrines; and these plans, after being considerably enlarged, were adopted. After the contract was made, a request was received from the school committee that short hoppers be used instead of latrines; but we deemed it unwise to change the plans in this respect, because the hoppers would be likely to freeze in a building detached as this is; for although it is heated by steam from the schoolhouse, yet it is impracticable to keep it warm throughout the cold nights. The cost of this improvement was \$3,168.96. For a much smaller sum, closets like those at the Prescott School might have been put in the basement, and we think they would have proved more satisfactory.

The earth under the northerly end of the Prospect Hill School has been excavated so as to make a cellar under the entire build-

ing, and the ceiling of the cellar has been plastered. All the gutters have been renewed, about one-half of the roof has been re-slatted, and the building has been thoroughly repaired and painted outside.

At the Jackson School new plumbing, with ventilation, has been put in, and new floors have been laid in all the rooms.

At the Highland School a concrete walk has been laid around the westerly side of the building.

NEW SCHOOLHOUSES.

The Bingham School on Lowell Street in Ward Three, and the Burns School on Cherry Street in Ward Four, — both four-room brick buildings capable of enlargement to eight rooms, — have been completed, the expenditures thereon this year being hereinbefore specified. Their total cost is as follows: —

Bingham School, land and grading (20,-		
986 square feet)	. \$1,934 14	
building . . .	. 11,481 11	
steam heating appara-		
tus . . .	. 1,055 00	
furniture . . .	. 634 64	
	<hr/>	\$15,104 89
Burns School, land and grading (16,080		
square feet) . . .	. \$2,063 50	
building . . .	. 11,491 98	
steam heating apparatus,	1,055 00	
furniture . . .	. 639 04	
	<hr/>	\$15,249 52

HIRED SCHOOLROOMS.

With the addition in the Highland District of the Burns School, which was opened at the beginning of the fall term, it was thought no hired rooms would be needed; consequently the rooms in Clarendon Block were vacated in the summer vacation. So many new scholars, however, presented themselves for admission to the ninth class, that the rooms for that class in both the Highland and Burns Schools were overcrowded, and an additional ninth class was estab-

lished in the store in Mrs. L. W. Jones's building on Elm Street, at the corner of Winter Street, which was hired at a rental of twenty-five dollars per month, commencing Oct. 1.

AUXILIARY FIRE-ALARM.

By direction of the City Council, auxiliary fire-alarms have been placed in the high schoolhouse, and connected with the alarm box at the engine-house.

For the committee,

ELBRIDGE G. PARK, *Chairman.*
GEO. I. VINCENT, *Clerk.*

REPORT

OF THE

COMMITTEE ON FUEL AND STREET LIGHTS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Dec. 30, 1887.

Ordered to be filed with the city clerk for presentation to the next city council, to be printed in the annual reports. Sent down for concurrence.

CHARLES E. GILMAN, *Clerk.*

IN COMMON COUNCIL, Dec. 30, 1887.

Concurred in.

DOUGLAS FRAZAR, *Clerk.*

CITY OF SOMERVILLE.

IN COMMITTEE ON FUEL AND STREET LIGHTS, Dec. 31, 1887.

To the City Council of Somerville:—

The following is the final report of the committee on fuel and street lights for the year ending Dec. 31, 1887:—

SCHOOL FUEL ACCOUNT.

CREDIT.

Appropriation	\$6,000 00	
Less transfer to schoolhouse incidentals account	1,000 00	
		<hr/>
Net credit		\$5,000 00

DEBIT.

Expenditures:—

For fuel to Beach Street School . .	\$108 51	
Bell “ . .	451 15	
Bennett “ . .	193 69	
Bingham “ . .	204 05	
Brastow “ . .	72 09	
Burns “ . .	199 18	
Cedar Street “ . .	30 98	
Clarendon Block School .	31 40	
Cummings “ .	135 87	
Davis “ .	250 79	
Edgerly “ .	473 93	
Elm Street School (corner Winter Street) . .	32 68	
	<hr/>	<hr/>
<i>Amounts carried forward . .</i>	<i>\$2,184 32</i>	<i>\$5,000 00</i>

<i>Amounts brought forward</i>	.	.	\$2,184 32	\$5,000 00
For fuel to Forster School .	.	.	345 52	
Franklin “ .	.	.	173 09	
Harvard “ .	.	.	36 05	
High “ .	.	.	495 28	
Highland “ .	.	.	560 21	
Jackson “ .	.	.	220 10	
Lincoln “ .	.	.	288 35	
Morse “ .	.	.	280 29	
Prescott “ .	.	.	400 75	
Prospect Hill School	.		231 44	
Spring Hill “	.		36 05	
Union “	.		40 98	
Webster “	.		182 74	
<hr/>				
Total debit .	.	.	.	5,475 17
<hr/>				
Amount overdrawn .	.	.	.	\$475 17
<hr/>				

STREET LIGHTS ACCOUNT.

CREDIT.

Appropriation . .	\$13,000 00	
less transfer to schoolhouse		
incidentals account .	1,500 00	
	<hr/>	\$11,500 00
Receipts : —		
For new lamps erected .	\$240 00	
repairs of lamps damaged		
by teams . . .	41 69	
old iron . . .	7 80	
	<hr/>	289 49
Posts and lanterns on hand		
Jan. 1		324 75
		<hr/>
Net credit		\$12,114 24
		<hr/>
<i>Amount carried forward</i>		\$12,114 24

REPORT OF COMMITTEE ON FUEL AND STREET LIGHTS. 303

Amount brought forward \$12,114 24

DEBIT.

Expenditures : —

For gas, —

to Cambridge Gas Light

Company \$2,857 06

to Charlestown Gas Com-

pany 1,940 58

————— \$4,797 64

lighting and care of gas

and oil lamps 2,259 31

electric lights, —

lighting \$2,439 37

posts and hoods . . 259 93

————— 2,699 30

new gas and oil lamps 292 72

repairs of gas and oil lamps . . 404 31

supplies (oil, alcohol, wicks, and

matches) 181 99

discontinuing gas and oil lamps . 12 41

moving gas and oil lamps . . 4 50

street signs 9 75

incidentals 33 00

posts and lanterns on hand (13 posts,

16 sign lanterns, and 1 plain

lantern) 212 00

Total debit 10,906 93

Balance unexpended \$1,207 31

FUEL.

The prices for fuel paid B. F. Wild & Co., under contract for the year ending July 1, 1887, were \$4.38 per ton for furnace and egg coal, \$4.80 per ton for stove coal, \$6.50 per cord for hard wood, and \$5.50 per cord for soft wood.

Owing to a combination among the dealers, a contract after July 1 could not be made for a longer period than sixty days;

and Messrs. B. F. Wild & Co. being again the lowest bidders, a contract was made with them to Sept. 1 at the following prices: for furnace coal per ton, \$4.87; egg, \$5.07; and stove, \$5.37; and for wood, \$8.00 per cord for hard, and \$6.50 for soft. Orders were given to fill the bins at these prices; and, as the amount of fuel required since the 1st of September has been small, no contract has been made, but we have purchased of Messrs. Wild & Co. at market rates.

STREET LIGHTS.

GAS AND OIL.

The gas and oil lamps have been lighted and cared for, under the supervision of the superintendent, by persons employed by him with our approval. The prices paid until Oct. 1 were thirty-five cents per month for each gas lamp and fifty-five for each oil lamp; since Oct. 1, the prices have been forty and sixty cents, respectively. The prices for gas have been the same as last year; viz., \$1.65 per thousand feet for the four-foot burners, and \$1.59 per thousand for the thirty-foot burners. We have also continued the practice of lighting the gas and oil lamps on cloudy nights and when there is no moon, and have charged the petitioners \$20 for each lamp erected. The lamps have been lighted 280 nights.

ELECTRIC.

By authority of an order of the City Council, dated May 11, a contract was made with the Somerville Electric Light Company for the furnishing of fifty electric street lights for the term of one year, commencing June 1, at a compensation of thirty-seven cents per night each, lighting every night until one o'clock; and an order was passed Sept. 14, authorizing the erection of twenty additional electric lights, to be furnished by said company upon the same terms.

The company has labored under the disadvantages of using temporary quarters and inadequate power, and, in consequence, has furnished but fifty-four lights, and has not given as good service as we should have, more or less of the lights being out nearly every night, and the service being wholly suspended early in December for two nights, by the breaking down of the engine. At that time

the company moved into its new building on Willow Avenue, and set up another temporary engine.

The manager of the company promises that the permanent machinery will soon be ready for use, and the remainder of the seventy lights erected; and the power will then be ample to give good service for any number of lights that may be required.

The electric lights have all been located by this committee, with the approval of the City Council; and our policy has been to place them in the public squares and upon the main avenues, especially where no lights have heretofore been furnished. We think the seventy lights authorized will, when all in service, light our principal streets and squares very well; and, if the number be still further increased, the additional lights should be located upon a general plan for distributing the service systematically throughout the city, without regard to local requests which may be presented.

Most of the lights in service are upon wooden poles, erected by the company at its own expense, while six lights have been placed upon iron posts furnished by the city, the lights themselves being in all cases the property of the company.

Fifty-seven gas lamps with four-feet burners, one gas lamp with a thirty-feet burner, and eight oil lamps have been discontinued because of the erection of electric lights. Four thirty-feet burner gas lamps have been changed to electric lights, by removing the lanterns and setting extensions upon the posts, upon which the company placed the lights.

The following is a table of street lamps in the city : —

	GAS LAMPS.				Oil Lamps.	Electric Lamps.	Total.
	Charlestown Gas.		Cambridge Gas.				
	4-foot burners	30-foot burners	4-foot burners	30-foot burners			
Lamps in the city Jan. 1, 1887, as per last report .	185	2	222	4	81	-	494
Erected during the year at expense of city . . .	-	-	1	-	3	-	4
“ “ “ “ abutters .	6	-	4	-	2	-	12
“ “ “ “ company .	-	-	-	-	-	48	48
“ “ “ partly at expense of city .	-	-	-	-	-	2	2
	191	2	227	4	86	50	560
Changed from 4-foot burners to 30-foot burners .	1	1	-	-	-	-	-
	190	3	227	4	86	50	560
Changed from 30-foot burners to electric lamps .	-	1	-	3	-	4	-
	190	2	227	1	86	54	560
Discontinued because of erection of electric lamps,	20	1	37	-	8	-	66
Lamps now in service	170	1	190	1	78	54	494

For the committee,

HARRISON ALDRICH, *Chairman.*
GEO. I. VINCENT, *Clerk.*

REPORT OF THE CITY CLERK.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Feb. 21, 1888.

Accepted and referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

GEO. I. VINCENT, *Clerk pro tem.*

IN COMMON COUNCIL, Feb. 23, 1888.

Concurred in.

CHAS. S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

FEB. 21, 1888.

Annual report of the receipts of the city clerk's office for the year ending Dec. 31, 1887; also the registration of marriages, births, and deaths for the same period.

RECEIPTS FOR THE YEAR ENDING DEC. 31, 1887.

Recording mortgages and assignments	\$276 00
Fees for licensing dogs	230 00
344 marriage certificates	172 00
37 junk licenses	74 00
20 liquor licenses	20 00
2 billiard tables	6 00
7 auctioneers' licenses	14 00
Miscellaneous	6 25
	<hr/>
	\$798 25

All of which has been paid to the city treasurer, and his receipt taken for the same.

MARRIAGES IN 1887.

Number of intentions issued in 1887	344
Increase over last year	23
Marriages registered in 1887	359

NATIONALITY OF THOSE REGISTERED.

Both parties American	202
“ “ foreign	82
American groom and foreign bride	49
Foreign groom and American bride	26

— 359 couples.

First marriage of	654	
Second marriage of	59	
Third marriage of	5	
	—	359 couples.
Oldest person married	74	
Youngest	17	
Youngest couple married: —		
Bridegroom	19	
Bride	18	

BIRTHS.

Number of births registered in 1887	878	
More than last year	156	
Males	446	
Females	432	
	—	878
Born of American parents	338	
“ “ foreign “	350	
American father and foreign mother	84	
Foreign father and American mother	106	
	—	878
Number of cases of twins	10	

DEATHS.

Whole number of deaths in Somerville in 1887	621	
More than last year	128	
Number of males	334	
Number of females	287	
	—	621
Under 10 years of age	271	
Between 10 and 20	38	
“ 20 “ 30	56	
“ 30 “ 40	54	
“ 40 “ 50	57	
“ 50 “ 60	46	
“ 60 “ 70	44	
“ 70 “ 80	38	
“ 80 “ 90	15	
“ 90 “ 100	2	
	—	621

Oldest person deceased, 97 years, 5 months, 13 days.

NATIONALITY.

Born in Somerville	252	
“ “ other places in United States .	240	
Foreign birth	129	
	—	621

Number of deaths returned by undertakers . .	621	
January	52	
February	30	
March	61	
April	45	
May	41	
June	42	
July	71	
August	61	
September	37	
October	51	
November	66	
December	64	
	—	621

For classification of diseases, see report of Board of Health.

CHARLES E. GILMAN, *City Clerk*.

REPORT OF THE INSPECTOR OF MILK.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Jan. 11, 1888.

Accepted and referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

DOUGLAS FRAZAR, *Clerk pro tem.*

IN COMMON COUNCIL, Jan. 11, 1888.

Concurred in.

CHAS. S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

JAN. 2, 1888.

To his Honor the Mayor and the City Council:—

GENTLEMEN,—I herewith submit the following report as milk inspector for the year ending Dec. 31, 1887:—

Two hundred and twenty-eight licenses have been issued to producers and milkmen. Twenty-six persons have been registered to sell milk from stores, making the total number of registers to equal one hundred and sixty-three. Fourteen licenses have been issued to sell oleomargarine and butterine. The sum received for licenses equals one hundred and thirty-four dollars, which has been passed into the city treasury.

Three hundred and twenty-eight samples of milk from milkmen and stores have been tested. Ten legal notices have been served on as many persons for milk found to be below the standard. Thirty-seven personal visits have been made, giving verbal notices that improvement must be made in the quality of the milk delivered.

At the request of milkmen, samples of milk from thirty-nine different dairies have been examined. The milk from these dairies came directly from the country, and had not been under the influence of the “Charles and Mystic Rivers;” and yet, in some cases, it was *impregnated with the Mystic quality*, proving that the milk *distributors* are not the only parties liable for poor milk. It gives me pleasure to say, that, in my judgment, the city of Somerville is supplied *generally* with milk of *very good* quality.

Some six thousand cans of milk are handled daily by the milkmen that supply Somerville. Among these there is a sharp competition for trade, and stores, for various reasons, are supplied at prices varying from thirty-eight to fifty-two cents per can. Thirty-six cents is now the railroad price for milk per can, and forty-five cents gives a fair margin for handling milk by the can. Many stores retail for five and six cents per quart, while others sell at

seven cents. The people of Somerville who raise their own milk have no trouble in selling for eight cents per quart in their own immediate vicinity. The milk from the country purchased by the milkmen is of as good quality, with only a few exceptions, as that produced in the city, but it cannot be delivered as fresh; hence the reason for the difference in prices at retail. Many stores sell milk as received from the roads at nominal prices, as leaders for trade in other goods, without respect to profit.

There are but fourteen licensed men in Somerville that sell oleomargarine and butterine, the high rate for government license having induced many to give up trading in the articles. By the report of these fourteen dealers, they are selling about forty-seven hundred pounds per month. By an estimate it is found that there are about one hundred and twenty thousand pounds of butter sold in the city per month. These estimates prove that the proportion of oleomargarine and butterine is quite small.

I have pursued the same course as heretofore in dealing with cases where milk does not exactly meet the full requirements of the law, and, I think, with good effect. I have received no complaints from *citizens* as to quality.

Very respectfully,

THOMAS CUNNINGHAM, *Inspector of Milk.*

REPORT
OF THE
INSPECTOR OF BUILDINGS.

CITY OF SOMERVILLE.

IN BOARD OF ALDERMEN, Jan. 11, 1888.

Accepted and referred to the committee on printing, to be printed in the annual reports. Sent down for concurrence.

DOUGLAS FRAZAR, *Clerk pro tem.*

IN COMMON COUNCIL, Jan. 11, 1888.

Concurred in.

CHAS. S. ROBERTSON, *Clerk.*

CITY OF SOMERVILLE.

DEC. 31, 1887.

To his Honor the Mayor and the City Council.

GENTLEMEN, — The number of permits granted for the erection of new, and alteration of old, buildings during the year was 395.

Classified as follows : —

Dwelling-houses	.	.	.	.	.	.	.	.	287
Stores and tenements	.	.	.	.	.	.	.	.	7
Churches	.	.	.	.	.	.	.	.	3
Alterations	.	.	.	.	.	.	.	.	52
Stables	.	.	.	.	.	.	.	.	34
Miscellaneous	.	.	.	.	.	.	.	.	12

The building ordinance is not exacting, and there is a general disposition among builders to comply with its provisions. As one purpose of this ordinance is to prevent the destruction of property by fire, I recommend that it be so improved as to require that shingled roofs be covered with a fire-proof paint. As conflagrations are caused by fire extending from one building to another on the exterior, the importance of this recommendation can plainly be seen.

Respectfully submitted,

J. R. HOPKINS, *Inspector.*

CITY GOVERNMENT AND OFFICERS FOR 1888.

MAYOR.

MARK F. BURNS.

Residence, 61 Mt. Vernon Street ; office, City Hall.

ALDERMEN.

BERNARD W. LAWRENCE, *President*.

WARD ONE.

NATHAN H. REED	.	.	.	.	Florence Street.
GEORGE D. WEMYSS	.	.	.	.	Austin Street.

WARD TWO.

CHARLES L. NORTH	.	.	.	.	High Street.
TIMOTHY C. DWYER	.	.	.	.	Somerville Avenue.

WARD THREE.

JOHN F. KENNARD	.	.	.	.	Howe Street.
ROBERT DUDDY	.	.	.	.	Bond Street.

WARD FOUR.

BERNARD W. LAWRENCE	.	.	.	.	Holland Street.
EDWARD H. BRADSHAW	.	.	.	.	Central Street.

CLERK OF BOARD OF ALDERMEN.

CHARLES E. GILMAN (deceased Feb. 22).
GEORGE I. VINCENT (elected Feb. 28).

COMMON COUNCIL.GEORGE O. PROCTOR, *President.***WARD ONE.**

GEORGE M. STARBIRD	.	.	.	.	Pearl Street.
CHARLES M. HEMENWAY	.	.	.	.	Perkins Street.
CHARLES B. SANBORN	.	.	.	.	Austin Street.
BYRON L. FRENCH	.	.	.	.	Florence Street.

WARD TWO.

PATRICK F. DEADY	.	.	.	.	Oak Street.
JOHN W. MACDONALD	.	.	.	.	High Street.
JEREMIAH J. LYONS	.	.	.	.	Washington Street.
LYMAN H. BROWN	.	.	.	.	Somerville Avenue.

WARD THREE.

EDWARD O'BRIEN	.	.	.	.	Lowell Street.
EZRA D. SOUTHER	.	.	.	.	Pembroke Street.
MARTIN L. KING	.	.	.	.	Cross Street.
ALVANO T. NICKERSON	.	.	.	.	Broadway.

WARD FOUR.

GEORGE O. PROCTOR	.	.	.	.	Spring Street.
ALBERT W. EDMANDS	.	.	.	.	Summer Street.
CHARLES F. BERTWELL	.	.	.	.	Broadway.
JOSEPH CUMMINGS	.	.	.	.	Broadway.

CLERK OF COMMON COUNCIL.

CHARLES S. ROBERTSON.

JOINT STANDING COMMITTEES FOR 1888.

ACCOUNTS. — Aldermen North, Duddy; Councilmen King, Edmands, Lyons.

CITY ENGINEERING. — Aldermen Reed, North; Councilmen Starbird, O'Brien, Nickerson.

CLAIMS. — His Honor the Mayor; Alderman Wemyss; the President of the Common Council; Councilmen Hemenway, Cummings.

FINANCE. — His Honor the Mayor ; Aldermen Wemyss, Bradshaw ; the President of the Common Council ; Councilmen Souther, Hemenway, Deady, Cummings.

FIRE DEPARTMENT. — Aldermen Lawrence, Kennard ; Councilmen Macdonald, Bertwell, Sanborn.

FUEL AND STREET LIGHTS. — Aldermen Dwyer, Reed ; Councilmen King, French, Edmands.

HIGHWAYS. — Aldermen Reed, Bradshaw ; Councilmen O'Brien, Starbird, Brown.

LEGISLATIVE MATTERS. — His Honor the Mayor ; Alderman Bradshaw ; the President of the Common Council ; Councilmen Cummings, Deady.

ORDINANCES. — Aldermen Wemyss, Lawrence ; Councilmen Hemenway, Souther, Bertwell.

PRINTING. — Aldermen Kennard, Lawrence ; Councilmen King, Sanborn, Edmands.

PUBLIC GROUNDS. — Aldermen Kennard, Reed ; Councilmen Macdonald, Nickerson, French.

PUBLIC PROPERTY. — Aldermen Duddy, Wemyss ; Councilmen Starbird, Nickerson, Lyons.

SOLDIERS' RELIEF. — Aldermen Reed, North ; Councilmen O'Brien, Sanborn, Lyons.

WATER. — Aldermen Bradshaw, Dwyer ; the President of the Common Council ; Councilmen Souther, Brown.

COMMITTEES OF THE BOARD OF ALDERMEN.

STANDING COMMITTEES.

ELECTIONS. — Aldermen Lawrence, North.

ENROLLED ORDINANCES. — Aldermen Duddy, Dwyer.

LICENSES. — Aldermen Lawrence, Duddy.

POLICE. — His Honor the Mayor ; Aldermen Dwyer, Wemyss.

SEWERS. — Aldermen North, Lawrence, Kennard.

STATE AID. — Aldermen Bradshaw, Dwyer, Duddy, North.

SPECIAL COMMITTEE.

BUILDING PERMITS. — Aldermen Reed, Lawrence.

STANDING COMMITTEES OF THE COMMON COUNCIL.

ELECTIONS AND RETURNS.— Councilmen Deady, Macdonald, Bertwell.

ENROLLED ORDINANCES AND RESOLUTIONS.— Councilmen Souther, French, Brown.

SCHOOL COMMITTEE.

MARK F. BURNS, Mayor, Chairman, *ex officio*.

GEORGE O. PROCTOR, President of the Common Council, *ex officio*.

(Term, three years.)

WARD ONE.

S. NEWTON CUTLER (elected 1885) . . Pearl Street.
 HORACE C. WHITE, M.D. (elected 1886) . Arlington Street.
 HORACE P. HEMENWAY, M.D. (elected 1887) Perkins Street.

WARD TWO.

A. H. CARVILL, M.D. (elected 1885) . . Bow Street.
 JAMES F. BEARD (elected 1886) . . Prospect Hill Av.
 CHARLES I. SHEPARD (elected 1887) . . High Street.

WARD THREE.

NORMAN W. BINGHAM (elected 1885) . . School Street.
 Q. E. DICKERMAN (elected 1886) . . Central Street.
 WILLIAM P. HILL (elected 1887) . . Sycamore Street.

WARD FOUR.

MARTIN W. CARR (elected 1887) . . Cragie Street.
 Prof. BENJAMIN G. BROWN (elected 1885) . Professors' Row.
 H. P. MAKECHNIE, M.D. (elected 1886) . Elm Street.
 Secretary, J. H. DAVIS Myrtle Street.

Superintendent of Schools, J. H. DAVIS to May 1.

C. E. MELENEY from May 1.

PRINCIPAL ASSESSORS.

(Term, three years.)

STILLMAN H. LIBBY (elected 1886), *Chair-*

man Elm Street.

GEORGE W. HADLEY (elected 1888) . . Perkins Street.

BENJAMIN F. THOMPSON (elected 1887) . Summit Avenue.

ASSISTANT ASSESSORS.

(Term, one year.)

GEORGE W. BARTLETT, Ward One	.	.	Mt. Vernon Street.
DEXTER F. BENNETT, Ward Two	.	.	Washington Street.
HIRAM D. SMITH, Ward Three	.	.	Cross Street.
SAMUEL T. RICHARDS, Ward Four	.	.	Summer Street.

BOARD OF HEALTH.

(Term, Physician, three years; other members, two years.)

THOMAS M. DURELL, M.D. (appointed 1888)	<i>Chairman</i>	.	.	Office, Police Building.
J. FRANK WELLINGTON		.	.	Vinal Avenue.
	<i>Clerk</i> , GEORGE I. VINCENT	.	.	Office, City Hall.
	<i>Inspector</i> , WILLIAM H. BRINE	.	.	40 Houghton Street.

COMMISSIONERS OF THE SINKING FUNDS.

(Term, three years.)

HENRY F. WOODS (elected 1888)	.	.	Sycamore Street.
CHRISTOPHER E. RYMES (elected 1887 for unexpired term)	.	.	Summer Street.
JOHN F. NICKERSON (elected 1887 for unexpired term)	.	.	Flint Street.
<i>Treasurer</i> , AARON SARGENT, Broadway.			

OVERSEERS OF THE POOR.MARK F. BURNS, *Mayor*, *Chairman*, *ex officio*.

(Term, four years.)

HERBERT E. HILL (elected 1886)	.	.	Mt. Vernon Street.
CHARLES G. BRETT (elected 1885)	.	.	Hall Street.
EDWARD B. WEST (elected 1888 for unexpired term)	.	.	Prescott Street.
DANIEL C. STILLSON (elected 1888)	.	.	Tennyson Street.

Agent, CHARLES C. FOLSOM, Office, Police Building, Bow Street.
Secretary, FRANK W. KAAAN, Office, Police Building, Bow Street.

REGISTRARS OF VOTERS.

CHARLES E. GILMAN, *City Clerk* (deceased Feb. 22).

GEORGE I. VINCENT, *City Clerk* (elected Feb. 28).

(Term, three years.)

CROMWELL G. ROWELL (appointed 1888).

OTIS M. CURRIER (appointed 1887).

SAMUEL G. A. TWYXCROSS (appointed 1886).

SOMERVILLE MYSTIC WATER BOARD.

(Term, one year.)

J. ORLIN HAYDEN, *President* . Hill Building, Union Square.

WALTER S. BARNES Highland Avenue.

JOHN B. VIAL Webster Street.

ADNA C. WINNING Fremont Street.

RICHARD DOWD Charles Street.

Clerk, FREDERIC W. STONE.

Superintendent of Water Works, NATHANIEL DENNETT.

Office, Prospect Street, corner Somerville Avenue.

TRUSTEES OF THE PUBLIC LIBRARY.

(Term, three years.)

CHARLES S. LINCOLN (elected 1888), *President*, Laurel Street.

CHARLES G. POPE (elected 1888) . . Summit Avenue.

J. HENRY FLITNER (elected 1886), *Secre-*

tary Day Street.

GEORGE A. BRUCE (elected 1886) . . Highland Avenue.

WILLIAM E. WELD (elected 1887) . . Harvard Street.

JAMES E. WHITAKER (elected 1887) . . Sycamore Street.

WILLIAM H. BRINE (elected 1886) . . Highland Avenue.

SANFORD HANSCOM, M.D. (elected 1887) . Webster Street.

CHRISTOPHER E. RYMES (elected 1888) . Summer Street.

Librarian, HARRIET A. ADAMS.

CITY CLERK AND CLERK OF BOARD OF ALDERMEN.

CHARLES E. GILMAN (deceased Feb. 22). Office, City Hall.

GEORGE I. VINCENT (elected Feb. 28).

CITY TREASURER AND COLLECTOR OF TAXES.

JOHN F. COLE. Office, City Hall.

CITY MESSENGER.

JAIROS MANN. Office, City Hall.

CITY SOLICITOR.

SELWYN Z. BOWMAN. Office, 23 Court Street, Boston.

CITY AUDITOR.

DOUGLAS FRAZAR. Office, City Hall.

CITY ENGINEER.

HORACE L. EATON. Office, City Hall.

SUPERINTENDENT OF STREETS.

FRANK G. WILLIAMS, Albion Street. Office, City Hall.

SUPERINTENDENT OF PUBLIC BUILDINGS AND LIGHTS.

THOMAS R. ROULSTONE. Office, City Hall.

**SUPERINTENDENT OF TELEGRAPH AND TELEPHONE
LINES.**

JAMES R. HOPKINS, Thorpe Place.

CHIEF OF POLICE.

MELVILLE C. PARKHURST, Police Station, Bow Street.

CHIEF ENGINEER OF FIRE DEPARTMENT.

JAMES R. HOPKINS. Office, Engine House, Highland Avenue.

INSPECTOR OF BUILDINGS.

JAMES R. HOPKINS, Thorpe Place.

INSPECTOR OF MILK AND VINEGAR.

THOMAS CUNNINGHAM, Oak Street.

CITY PHYSICIAN.

THOMAS M. DURELL, M.D., 14 Bow Street.

CLERK OF ASSESSORS AND COMMITTEES.

GEORGE I. VINCENT. Office, City Hall.

ASSISTANT CLERK OF ASSESSORS AND COMMITTEES.

WILLIAM P. MITCHELL. Office, City Hall.

CONSTABLES.

JARIUS MANN.

ROBERT R. PERRY.

CHARLES C. FOLSOM.

EDWARD MCGARR.

C. C. CAVANAGH.

WM. H. BRINE (Houghton St.).

WILLIAM D. HAYDEN.

SAMUEL R. DOW.

JOSEPH J. GILES.

GEORGE CULLIS.

FIELD DRIVERS.

JOHN E. FULLER.
JUDSON W. OLIVER.
PATRICK BENCH.
HUBERT H. MILLER.

DENNIS KELLY.
CHARLES S. THRASHER.
GEORGE W. BEAN.
CHARLES L. ELLIS.

JAMES F. FOLEY.

FENCE VIEWERS.

DAVID A. SANBORN.

CHARLES D. ELLIOTT.

POUND KEEPER.

CHARLES A. SMALL.

SEALER OF WEIGHTS AND MEASURES.

AMMIEL COLMAN, 34 Marshall Street.

MEASURER OF WOOD AND BARK.

SAMUEL T. LITTLEFIELD.

WEIGHERS OF COAL.

J. C. COUSINS.

D. W. DANFORTH.

MEASURER OF GRAIN.

JOHN C. CRAIG.

UNDERTAKERS.

WILLIAM A. FLAHERTY.	P. H. RAFFERTY.	PATRICK RAFFERTY.
E. H. MARSH.	THOMAS J. BARKER.	HORACE D. RUNEY.
	ALFRED E. MANN.	

POLICE DEPARTMENT.

M. C. PARKHURST, *Chief*.R. R. PERRY, *Captain*.S. R. DOW, *Sergeant*.EDWARD MCGARR, *Sergeant*.C. C. CAVANAGH, *Sergeant*.

JOHN E. FULLER.

P. W. SKINNER.

A. L. STAPLES.

S. A. BROWN.

J. W. OLIVER.

JOHN HAFFORD.

GEORGE W. BEAN.

IVAN LAIGHTON.

GEORGE L. SMITH.

M. H. KINSLEY.

EDWARD M. CARTER.

G. A. BODGE.

PATRICK J. BENCH.

DENNIS KELLY.

J. F. JOHNSON.

GEORGE H. CARLETON.

E. A. CARTER.

H. H. MILLER.

EDWARD E. HAMBLIN.

FRANCIS A. PERKINS.

JAMES F. FOLEY.

CHARLES S. THRASHER.

CHARLES L. ELLIS.

WILLIAM H. JOHNSTON.

CHARLES E. WOODMAN.

M. C. PARKHURST, *Lock-up Keeper*.

MEETINGS.

BOARD OF ALDERMEN.

Second and fourth Wednesday evenings of each month.

COMMON COUNCIL.

Thursday evenings following the second and fourth Wednesdays of each month.

SCHOOL COMMITTEE.

Last Monday evening of each month.

INDEX.

	PAGE
City Government and Officers for 1887	3
“ “ “ “ 1888	321
Mayor's Inaugural Address	15
Meetings	13,331
Report of the Board of Health	195
“ “ Chief Engineer of Fire Department	277
“ “ City Clerk	307
“ “ “ Engineer	249
“ “ “ Physician	217
“ “ “ Treasurer and Collector of Taxes	33
“ “ Commissioners of the Sinking Funds	123
“ “ Committee on Fire Department	271
“ “ “ “ Fuel and Street Lights	299
“ “ “ “ Highways	227
“ “ “ “ Public Property	285
“ “ “ “ Sewers	243
“ “ Inspector of Buildings	317
“ “ Inspector of Milk	313
“ “ Overseers of the Poor	185
“ “ School Committee	127
“ “ Somerville Mystic Water Board	171
“ “ Trustees of the Public Library	221



